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## ABSTRACT

This report presents the data collected as part of the 1990 New Entrants Survey on the demographic, education, and employment characteristics of recent college graduates in science and engineering fields. A major objective of the survey was to develop national estimates and characteristics of the total population of scientists and engineers in the United States. The report is presented in three sections. The first section discusses the survey design, response rates of the sample (25,686) of science and engineering graduates in 1988 and 1989, definitions of key variables in the survey, differences of the survey results with other data sources, and sampling errors. The second section, which makes up the majority of the report, presents detailed statistical tables reporting graduate characteristics by field of degree, sex, graduate school status, employment status, racial/ethnic group, type of employer, primary work activity, and annual salaries. The tables are grouped into the following science and engineering categories: (1) 1988 bachelor's-degree recipients; (2) 1988 master's-degree recipients; (3) 1989 bachelor's-degree recipients; (4) 1989 master's-degree recipients; (5) median annual salaries of 1988 and 1989 bachelor's-degree recipients; (6) median annual salaries of 1988 and 1989 master's-degree recipients; and (7) selected employment characteristics of 1988 and 1989 bachelor's- and master's-degree recipients. The third section reproduces a copy of the questionnaire used in the survey.

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# Characteristics of Recent Science and Engineering Graduates: 1990

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# Characteristics of Recent Science and Engineering Graduates: 1990

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**Project Officer: John Tsapogas**



**Surveys of Science Resources Series  
National Science Foundation**

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National Science Foundation staff express their appreciation for the assistance of the recent science and engineering graduates and their institutions who responded to this survey; their cooperation made the report possible. For additional information on the 1990 survey, contact the Personnel Program, Division of Science Resources Studies, National Science Foundation, 1800 G Street, N.W., Rm. L-609, Washington, D.C. 20550, (202) 634-4664.

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## General Notes

In these tables, data are presented on the characteristics of men and women who received a bachelor's or master's degree in a science or engineering field from U.S. institutions during the 1987/88 (1988) and 1988/89 (1989) academic years. The data were collected in 1990 and reflect the characteristics of individuals as of the spring of that year. In addition to disclosing the demographic attributes of recent science and engineering (S&E) graduates, the data reveal early career employment experiences, such as the extent to which recent graduates entered the labor force, whether they were able to find employment, and the attributes of that employment.

Results of this survey are presented separately for bachelor's and master's degree recipients, and most results are presented separately also for the two graduating years. To overcome some of the limitations of small cell size information the data on certain salary and selected employment characteristics are combined for the graduating classes at each degree level.

This report comprises three sections: The technical notes in Section A contain information on survey methodology, coverage, concepts, definitions, and sampling errors; detailed tabulations from the survey are presented in Section B; and the questionnaire used in the survey is reproduced in Section C.

## Section A. Technical Notes

The information presented in this report was collected as part of the 1990 New Entrants Survey.<sup>1</sup> In this survey series, data are provided on the demographic, education, and employment characteristics of recent college graduates in science and engineering (S&E) fields. This survey, the Experienced Sample Survey, and the Survey of Doctorate Recipients constitute the National Science Foundation's (NSF) Scientific and Technical Personnel Data System (STPDS). A major objective of the STPDS is to develop national estimates and characteristics of the total population of scientists and engineers in the United States. The New Entrants data provide estimates of the recent bachelor's- and master's-degree recipients in S&E fields who have entered the labor force, and thus are a new component of the Nation's population of scientists and engineers.

### Survey Design<sup>2</sup>

The purpose of the 1990 New Entrants Survey was to collect graduate school enrollment and labor force data on recent college graduates in S&E fields. Specifically, the survey objectives called for a national sample of recent college graduates for each of two periods--those graduated between July 1, 1987, and June 30, 1988 (1988 graduating class), and those graduated between July 1, 1988, and June 30, 1989 (1989 graduating class).

A 2-stage probability sample of graduates was employed for this study. In the first stage, 274 universities and colleges<sup>3</sup> were selected as the primary sampling units (PSUs).

In choosing the 94 noncertainty PSUs, stratification was imposed by geographic region, public/private status, whether or not agricultural curriculums were offered, and percent of engineering graduates. A special stratum of predominately minority universities was also assembled; six predominantly black universities and three Hispanic PSUs were selected with probabilities proportional to measures of size.

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<sup>1</sup> This survey was conducted under contract with NSF by the Institute for Survey Research, Temple University.

<sup>2</sup> Detailed aspects of the survey design as well as other technical details may be found in *Methodological Approach to the 1990 New Entrants Surveys* (Philadelphia, Pa.: Institute for Survey Research, Temple University, 1991).

<sup>3</sup> Schools were selected from the institutions included in the 1984-85 Higher Education General Information Survey (HEGIS) of the National Center for Education Statistics.



The second stage of the sample involved the selection of graduates within PSUs. The sampling frame consisted of lists of graduates supplied by the universities chosen in the first stage sample. The lists generally included data on degree received, major field of study, year of graduation, and mailing address. Within "Hispanic" PSUs, all students were oversampled by a factor of two. Similarly, all students within "black" PSUs were oversampled by a factor of two. In table A-1, sample sizes and response data for each major field/degree cell for the combined 1988 and 1989 graduating classes are presented.

Table A-1. Estimated sampling and response characteristics: 1990 New Entrants Survey

| Field of degree             | Estimated number of graduates <sup>1</sup> |          | Number in Sample |          | Estimated percentage sampled <sup>2</sup> |          | Number of responses |          |
|-----------------------------|--|----------|------------------|----------|---|----------|---------------------|----------|
|                             | Bachelor's                                 | Master's | Bachelor's       | Master's | Bachelor's                                | Master's | Bachelor's          | Master's |
| Total.....                  | 643,262                                    | 136,619  | 15,055           | 10,631   | 2.3                                       | 7.8      | 10,078              | 6,728    |
| Physical sciences.....      | 29,425                                     | 9,171    | 1,637            | 2,055    | 5.6                                       | 22.4     | 803                 | 871      |
| Mathematical sciences.....  | 35,267                                     | 10,623   | 664              | 1,635    | 1.9                                       | 6.0      | 550                 | 495      |
| Computer sciences.....      | 69,272                                     | 22,188   | 2,036            | 823      | 2.9                                       | 3.7      | 1,456               | 606      |
| Environmental sciences..... | 7,320                                      | 5,219    | 428              | 884      | 5.8                                       | 16.9     | 289                 | 618      |
| Biological sciences.....    | 79,926                                     | 12,088   | 460              | 163      | .6  | 1.4      | 575                 | 322      |
| Agricultural sciences.....  | 31,254                                     | 7,196    | 909              | 212      | 2.9                                       | 3.0      | 713                 | 235      |
| Psychology....              | 85,665                                     | 7,311    | 630              | 343      | .7  | 4.7      | 432                 | 145      |
| Social sciences.....        | 156,386                                    | 19,944   | 1,208            | 530      | .8  | 2.7      | 852                 | 374      |
| Engineering...              | 148,746                                    | 42,880   | 6,531            | 4,451    | 4.4                                       | 10.4     | 4,408               | 3,062    |
| No major given.....         | 3  | 3        | 552              | 535      | 4   | 4        | 3                   | 3        |

- 1/ The figures in this column are the final weighted estimates derived from the 1990 New Entrants Survey.
- 2/ This number should not be interpreted as the precise sampling rate. The rows of this table have collapsed 29 sampling strata, each with its own sampling rate. (See the Methodological Report for details.) Also, the number in the sample was based on the year of graduation that had been reported for the graduate, not the year of graduation actually reported in the questionnaire. The column is given only as an approximation to an "average" sampling rate across sampling strata.
- 3/ The numbers here reflect the field of study as derived from the questionnaire. Thus, respondents appearing in one field may already have been sampled in another (e.g., double major). Also, the "No major" entries are not available because the data were distributed in the respondents' respective fields of study. For these reasons, response rates derived from this table will tend to overestimate the true values. (See Methodological Report for a more appropriate treatment of survey response.)
- 4/ Since the estimated number of graduates was based on the field of degree in the questionnaire, the denominator for the entry in this cell would be blank.

NOTE: The data in this table are provided for consistency with other segments of this report; a more detailed presentation is furnished in the report titled *Methodological Approach to the 1990 New Entrants Survey*, Institute for Survey Research, Temple University, Philadelphia, Pennsylvania, 1991.

SOURCE: Institute for Survey Research, Temple University

## Graduate Response

The disposition of sampled graduates in the 1990 New Entrants Survey is presented in table A-2. A total of 25,686 (unweighted) graduates were sampled from lists furnished by the selected universities and colleges. Sampled graduates received a maximum of four mailings (an initial mailing, a postcard followup, a second mailing, and a third via certified mail). Following these four mailings, an intensive effort was made to find telephone numbers for the nonrespondents and, wherever possible, potential respondents were interviewed by phone.

Responses were provided by 73.3 percent (18,834) of the 25,686 graduates. Of these, 10.8 percent (2,028) were found to be out of scope either because they had not received a degree in an science or engineering field, had not received their degree in one of the graduating classes being surveyed, or were deceased. Of the 6,852 remaining graduates who did not respond, about 45 percent (3,104) failed to respond after four contacts were attempted through the mail and/or telephone, and 46.9 percent (3,213) did not receive a questionnaire because no usable address could be found. An additional 7.8 percent (535) refused to complete the questionnaire. In terms of all individuals for whom a usable address was obtained and who were eligible to participate (i.e., received either a bachelor's or master's degree in an S&E field in either 1988 or 1989), the survey experienced an unweighted return rate of 82.2 percent (16,806/20,445).

In some cases respondents provided information about their major field of study, degree conferred, and year of graduation that differed from the information provided by the colleges. Final designation of field/degree/year was based on these responses rather than on the initial sampling code. Changes in the sampling strata could have occurred for several reasons: (1) the individual graduated at a later date than was reported on the list; (2) the graduate had a double major; (3) the individual was in receipt of both a BA/BS and MA/MS within eligible years and fields; (4) the graduates were selected from the "unknown field" sampling stratum; or (5) there were errors in the lists, e.g., wrong major or degree. The unweighted sizes for the major fields of study are presented in table A-3 .

The basic sampling weight used for the 1990 New Entrants Survey was the inverse of the probability of selection. The basic sampling weight reflected the conferred degree and major field of study stratum in which the graduate was sampled. It also accounted for such design features as the oversampling of blacks as well as Hispanic-surnamed graduates and the multiple chances of selection because of duplication. An additional weighted adjustment involved use of data from the Integrated Postsecondary Education Data System (IPEDS) data tape to produce ratio-type estimates of totals. A detailed discussion of these weighting procedures may be found in the methodological report of the survey.<sup>4</sup>

Weight adjustments were utilized to compensate for both institutional (primary sampling unit) and individual nonresponse.

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<sup>4</sup> Methodological Approach to the 1990 New Entrants Surveys, op.cit.

**Table A-2. Response status of sampled graduates:  
1990 New Entrants Survey**

| Status   | Total  |
|--|--------|
| Total . . . . .  | 25,686 |
| Response . . . . .   | 18,834 |
| Mail interviews . . . . .                                      | 13,185 |
| Telephone interviews . . . . .                                 | 3,621  |
| Out of scope--mail . . . . .                                   | 1,567  |
| Out of scope--telephone . . . . .                              | 448    |
| Out of scope--deceased . . . . .                               | 13     |
| No responses . . . . .   | 6,852  |
| Address presumed correct . . . . .                             | 1,602  |
| Status of address not determined, probably incorrect . . . . . | 1,154  |
| Incorrect address . . . . .                                    | 1,594  |
| New address obtained--Presumed correct . . . . .               | 1,376  |
| Unavailable . . . . .  | 126    |
| Refused . . . . .  | 535    |
| No address available . . . . .                                 | 465    |

NOTE: The survey covered both 1988 and 1989 graduating classes.

SOURCE: Institute for Survey Research, Temple University

Table A-3. Unweighted cell sizes for major fields of study: 1990 New Entrants Survey

| Major field of study              | 1988 graduates |          | 1989 graduates |          |
|-----------------------------------|----------------|----------|----------------|----------|
|                                   | Bachelor's     | Master's | Bachelor's     | Master's |
| Total . . . . .                   | 5,033          | 3,233    | 5,045          | 3,495    |
| Sciences, total . . . . .         | 2,814          | 1,734    | 2,856          | 1,932    |
| Physical sciences . . . . .       | 403            | 401      | 400            | 470      |
| Chemistry . . . . .               | 240            | 148      | 239            | 151      |
| Physics/astronomy . . . . .       | 121            | 146      | 138            | 185      |
| Other physical sciences . . . . . | 42             | 107      | 23             | 134      |
| Mathematics/statistics . . . . .  | 256            | 242      | 294            | 253      |
| Computer sciences . . . . .       | 718            | 286      | 738            | 320      |
| Environmental sciences . . . . .  | 163            | 307      | 126            | 311      |
| Life sciences . . . . .           | 668            | 271      | 620            | 286      |
| Biology . . . . .                 | 296            | 161      | 279            | 161      |
| Agricultural . . . . .            | 372            | 110      | 341            | 125      |
| Psychology . . . . .              | 193            | 62       | 239            | 83       |
| Social sciences . . . . .         | 413            | 165      | 439            | 209      |
| Economics . . . . .               | 151            | 34       | 165            | 50       |
| Sociology/anthropology . . . . .  | 87             | 40       | 92             | 48       |
| Other social sciences . . . . .   | 175            | 91       | 182            | 111      |
| Engineering, total . . . . .      | 2,219          | 1,499    | 2,189          | 1,563    |
| Aeronautical/astro . . . . .      | 115            | 44       | 108            | 42       |
| Chemical . . . . .                | 231            | 201      | 238            | 198      |
| Civil . . . . .                   | 375            | 107      | 385            | 131      |
| Electrical/electronics . . . . .  | 386            | 118      | 410            | 126      |
| Industrial . . . . .              | 260            | 110      | 237            | 97       |
| Materials . . . . .               | 103            | 230      | 109            | 241      |
| Mechanical . . . . .              | 233            | 129      | 267            | 126      |
| Mining . . . . .                  | 47             | 91       | 33             | 79       |
| Nuclear . . . . .                 | 108            | 104      | 89             | 127      |
| Petroleum . . . . .               | 128            | 112      | 104            | 108      |
| Other . . . . .                   | 233            | 253      | 209            | 288      |

SOURCE: Institute for Survey Research, Temple University

## Definitions

The following definitions are provided to facilitate the reader's use of the data in this report.

**Field of science and engineering:** derived from the name of the specialty most closely related to the respondent's degree field. Employment specialty was derived from the name and code number selected from the Degree and Employment Specialty List of the questionnaire. Specialties were grouped to form fields in accordance with the classification presented in table A-4.

**Labor force:** derived from questions 3, 5, and 6. The labor force includes individuals working full or part time as well as those not working but seeking work. In addition, individuals who were on layoff, on vacation, or otherwise temporarily absent from a job for health or personal reasons, or who looked for work during the three weeks prior to the survey date, were included within the labor force.

**Employed in S&E occupation:** derived from question 14, in which data were collected on the specialty most closely related to principal employment. S&E occupations include specialties in the natural sciences, social sciences, and engineering.

**Type of employer:** derived from question 10. The category "educational institutions" includes junior and 2-year colleges, technical institutions, medical schools, universities or 4-year colleges, and elementary or secondary school systems. Industry includes both those employed in a business or industry as well as those who are self-employed. Employees of hospitals or clinics as well as Military/Commissioned Corps personnel are included under the category "other."

**Primary work activity:** derived from question 12. The term "research and development" includes basic research, applied research, development and design, but excludes research and development management. "Sales/professional services" includes distribution and clinical diagnosis. The activities grouped under "production/inspection" include work related to operations and quality control. The category "reporting, statistical work, and computing activities" includes report and technical writing, statistical work, and computer applications. Consulting activities are included under the category "other."

**Salaries:** derived from responses to question 15, in which information was requested on basic annual salary before deductions for such items as income tax, Social Security, and retirement but not including bonuses, overtime, summer teaching, or other payments for professional work. Salaries reported are median annual salaries of full-time employed civilians rounded to the nearest \$100. Academic year salaries (9-10 months) have been multiplied by eleven-ninths to adjust the data to a calendar year (11-12 months) basis.

**Table A-4. Science and engineering field classification of special codes:  
1990 New Entrants Survey**

| Field of science or engineering      | Specialty code <sup>1</sup>                  |
|--------------------------------------|--|
| Physical sciences                    |  |
| Chemistry . . . . .                  | 722  |
| Physics/astronomy . . . . .          | 720, 731                                     |
| Other physical sciences . . . . .    | 421, 790                                     |
| Mathematics/statistics . . . . .     | 711-714, 750, 751, 780                       |
| Computer sciences . . . . .          | 723-729                                      |
| Environmental sciences . . . . .     | 721, 741, 742                                |
| Life sciences                        |  |
| Biology . . . . .                    | 211-290, 413                                 |
| Agricultural . . . . .               | 013-090                                      |
| Psychology . . . . .                 | 818  |
| Social sciences                      |  |
| Economics . . . . .                  | 813, 823                                     |
| Sociology/anthropology . . . . .     | 811, 812, 821                                |
| Other social sciences . . . . .      | 425, 814, 817, 822, 890                      |
| Engineering, total                   |  |
| Aeronautical/astronautical . . . . . | 511  |
| Chemical . . . . .                   | 515  |
| Civil . . . . .                      | 516  |
| Electrical/electronics . . . . .     | 517  |
| Industrial . . . . .                 | 521  |
| Materials . . . . .                  | 523, 530, 733                                |
| Mechanical . . . . .                 | 522  |
| Mining . . . . .                     | 520, 524                                     |
| Nuclear . . . . .                    | 526  |
| Petroleum . . . . .                  | 527  |
| Other . . . . .                      | 414, 512-514, 519, 525<br>528, 529, 531, 590 |

1/ The specialty code corresponds with the "Degree and Employment Specialty List" included in the questionnaire for 1990. (See Section C).

SOURCE: Institute for Survey Research, Temple University

## Comparison of Survey Results with Other Data Sources

This survey has been designed to provide information on the post-college experiences of individuals who received a bachelor's or master's degree in science or engineering one or two years preceding the conduct of this survey. The total number of cases reported for different degree fields does not always agree precisely with information produced by the National Center on Educational Statistics (NCES), which is reported in their publications and in SRS publications on degrees granted.

Differences exist between the data of this report and the results reported in *Science and Engineering Degrees: 1986-89. A Source Book* because of differing decisions made on what fields to include or exclude from the universe. For example, this survey includes individuals with bachelor's or master's degrees in engineering technology, but individuals with these degrees are excluded from the sourcebook mentioned above.

Another major difference between the survey of recent graduates and the NCES-based surveys is the methodology used to obtain information on college graduates. NCES surveys rely on information provided from college or university administrative records. The information used in this survey is provided by schools to identify individuals who received a bachelor's or master's degree in a science or engineering field. The final classification of individuals, however, is based on information provided by the graduates themselves. For example, if college records indicated that a graduate's degree was in architectural engineering but a graduate reported it as a degree in architecture or environmental design (non-S&E fields), then the graduate would not be included as an engineer in this survey but would be included as an engineer in other surveys that rely on school administrative records for the classification of individuals.

### Sampling Errors

The statistics in this report are subject to error, including those resulting from sampling. Variability resulting from sampling can be calculated for estimated totals using a formula that accounts for the complex nature of the sample design. Averages of the square roots of design effects were calculated separately for each combination of year of graduation/degree field/degree level and for 23 tabulation items. These averages were then employed in the production of generalized sampling errors.

The generalized sampling error of an estimated total is defined as:

$$S = D[Y(N-Y)/n]^{1/2}$$



where  $D$  is the square root of the design effect for a given graduation year/degree field/degree level combination.

$N$  is the estimated total number of graduates in the field being analyzed.

$Y$  is the estimated number of graduates with a given characteristic of interest, and

$n$  is the total number of graduates in the sample for that graduation year/degree field/degree level combination.

Generalized standard errors for the reported S&E fields are presented in table A-5.

Table A-5. Generalized standard errors for recent science & engineering bachelor's degree recipients, by field: 1990

| Estimate | Total Sci. & Eng. | Physical Sciences |           |                |                  | Math/ Stat. | Comput. Sci. | Environ. Sci. | Life Sciences |         |             | Psychology | Social Sciences |           |              |                   |
|----------|-------------------|-------------------|-----------|----------------|------------------|-------------|--------------|---------------|---------------|---------|-------------|------------|-----------------|-----------|--------------|-------------------|
|          |                   | Total             | Chemistry | Physics/Astro. | Other Phys. Sci. |             |              |               | Total         | Biology | Agric. Sci. |            | Total           | Economics | Soc./ Anthr. | Other Social Sci. |
| 25       | 82                | 44                | 39        | 31             | 44               | 50          | 47           | 36            | 72            | 74      | 54          | 75         | 77              | 66        | 80           | 73                |
| 50       | 116               | 62                | 55        | 44             | 62               | 70          | 66           | 51            | 101           | 104     | 76          | 105        | 109             | 94        | 112          | 103               |
| 75       | 142               | 76                | 67        | 53             | 75               | 85          | 81           | 62            | 123           | 127     | 93          | 129        | 134             | 114       | 138          | 125               |
| 100      | 163               | 87                | 77        | 61             | 86               | 98          | 93           | 71            | 142           | 147     | 107         | 148        | 154             | 132       | 159          | 145               |
| 200      | 231               | 123               | 109       | 85             | 118              | 139         | 131          | 99            | 201           | 207     | 150         | 210        | 218             | 186       | 223          | 204               |
| 300      | 283               | 150               | 132       | 103            | 140              | 169         | 160          | 120           | 246           | 253     | 183         | 256        | 267             | 227       | 273          | 250               |
| 400      | 326               | 172               | 151       | 117            | 156              | 195         | 185          | 136           | 284           | 292     | 211         | 295        | 308             | 262       | 314          | 288               |
| 500      | 365               | 192               | 168       | 130            | 169              | 217         | 206          | 150           | 317           | 326     | 235         | 330        | 344             | 292       | 350          | 321               |
| 750      | 446               | 233               | 203       | 154            | 188              | 264         | 251          | 177           | 387           | 397     | 285         | 403        | 420             | 356       | 426          | 392               |
| 1,000    | 515               | 267               | 230       | 171            | 192              | 303         | 289          | 196           | 446           | 457     | 327         | 464        | 484             | 408       | 488          | 451               |
| 1,500    | 630               | 321               | 273       | 195            | 157              | 365         | 351          | 219           | 544           | 557     | 393         | 564        | 591             | 495       | 589          | 548               |
| 2,000    | 727               | 364               | 304       | 206            |                  | 415         | 402          | 225           | 625           | 639     | 447         | 648        | 680             | 565       | 670          | 628               |
| 2,500    | 812               | 399               | 326       | 206            |                  | 457         | 446          | 216           | 695           | 710     | 490         | 720        | 758             | 624       | 738          | 697               |
| 3,000    | 889               | 428               | 343       | 197            |                  | 493         | 485          | 190           | 758           | 773     | 527         | 784        | 828             | 676       | 796          | 758               |
| 4,000    | 1,025             | 473               | 359       | 137            |                  | 551         | 551          |               | 868           | 881     | 585         | 894        | 949             | 762       | 890          | 862               |
| 5,000    | 1,144             | 505               | 355       |                |                  | 595         | 606          |               | 961           | 971     | 627         | 987        | 1,054           | 830       | 960          | 949               |
| 6,000    | 1,251             | 525               | 331       |                |                  | 627         | 653          |               | 1,043         | 1,050   | 656         | 1,067      | 1,147           | 885       | 1,013        | 1,024             |
| 7,000    | 1,349             | 535               | 282       |                |                  | 650         | 693          |               | 1,116         | 1,118   | 673         | 1,138      | 1,231           | 930       | 1,050        | 1,087             |
| 8,000    | 1,440             | 535               | 188       |                |                  | 664         | 727          |               | 1,181         | 1,178   | 679         | 1,200      | 1,307           | 964       | 1,073        | 1,143             |
| 9,000    | 1,525             | 526               |           |                |                  | 671         | 757          |               | 1,240         | 1,231   | 675         | 1,255      | 1,376           | 991       | 1,084        | 1,191             |
| 10,000   | 1,605             | 507               |           |                |                  | 670         | 782          |               | 1,294         | 1,278   | 660         | 1,304      | 1,440           | 1,009     | 1,082        | 1,233             |
| 15,000   | 1,949             | 89                |           |                |                  | 534         | 856          |               | 1,500         | 1,438   | 359         | 1,475      | 1,699           | 995       | 866          | 1,362             |
| 20,000   | 2,233             |                   |           |                |                  |             | 854          |               | 1,629         | 1,500   |             | 1,550      | 1,885           | 776       |              | 1,380             |
| 25,000   | 2,475             |                   |           |                |                  |             | 777          |               | 1,699         | 1,475   |             | 1,544      | 2,017           |           |              | 1,294             |
| 30,000   | 2,689             |                   |           |                |                  |             | 596          |               | 1,716         | 1,360   |             | 1,454      | 2,106           |           |              | 1,077             |
| 40,000   | 3,051             |                   |           |                |                  |             |              |               | 1,594         | 660     |             | 911        | 2,174           |           |              |                   |
| 50,000   | 3,351             |                   |           |                |                  |             |              |               | 1,203         |         |             |            | 2,103           |           |              |                   |
| 60,000   | 3,603             |                   |           |                |                  |             |              |               |               |         |             |            | 1,876           |           |              |                   |
| 70,000   | 3,817             |                   |           |                |                  |             |              |               |               |         |             |            | 1,423           |           |              |                   |
| 80,000   | 3,999             |                   |           |                |                  |             |              |               |               |         |             |            |                 |           |              |                   |
| 90,000   | 4,153             |                   |           |                |                  |             |              |               |               |         |             |            |                 |           |              |                   |
| 100,000  | 4,283             |                   |           |                |                  |             |              |               |               |         |             |            |                 |           |              |                   |
| 150,000  | 4,621             |                   |           |                |                  |             |              |               |               |         |             |            |                 |           |              |                   |
| 200,000  | 4,500             |                   |           |                |                  |             |              |               |               |         |             |            |                 |           |              |                   |
| 230,000  | 4,197             |                   |           |                |                  |             |              |               |               |         |             |            |                 |           |              |                   |
| 250,000  | 3,878             |                   |           |                |                  |             |              |               |               |         |             |            |                 |           |              |                   |
| 300,000  | 2,392             |                   |           |                |                  |             |              |               |               |         |             |            |                 |           |              |                   |
| 350,000  |                   |                   |           |                |                  |             |              |               |               |         |             |            |                 |           |              |                   |

See SOURCE at end of table.

Table A-5. Generalized standard errors for recent science & engineering bachelor's degree recipients, by field: 1990

| Estimate | Engineering |              |          |     |              |            |           |            |        |         |           |       |
|----------|-------------|--------------|----------|-----|--------------|------------|-----------|------------|--------|---------|-----------|-------|
|          | Total       | Aero./astro. | Chemical | C.  | Elec./elect. | Industrial | Materials | Mechanical | Mining | Nuclear | Petroleum | Other |
| 25       | 50          | 29           | 24       | 30  | 52           | 32         | 14        | 42         | 22     | 16      | 23        | 40    |
| 50       | 70          | 41           | 34       | 42  | 73           | 45         | 20        | 59         | 30     | 22      | 31        | 56    |
| 75       | 86          | 50           | 41       | 52  | 89           | 55         | 24        | 72         | 36     | 26      | 37        | 68    |
| 100      | 99          | 58           | 47       | 60  | 102          | 63         | 27        | 83         | 40     | 29      | 42        | 79    |
| 200      | 140         | 80           | 66       | 83  | 144          | 88         | 36        | 117        | 51     | 35      | 54        | 111   |
| 300      | 171         | 96           | 79       | 101 | 176          | 107        | 41        | 142        | 56     | 34      | 60        | 135   |
| 400      | 197         | 109          | 90       | 116 | 203          | 122        | 43        | 164        | 54     | 25      | 60        | 154   |
| 500      | 220         | 120          | 100      | 129 | 227          | 135        | 43        | 182        | 47     |         | 55        | 171   |
| 750      | 269         | 141          | 118      | 155 | 276          | 162        | 33        | 221        |        |         |           | 207   |
| 1,000    | 310         | 154          | 130      | 176 | 318          | 183        |           | 253        |        |         |           | 234   |
| 1,500    | 379         | 168          | 146      | 207 | 385          | 214        |           | 305        |        |         |           | 277   |
| 2,000    | 436         | 166          | 151      | 229 | 441          | 234        |           | 346        |        |         |           | 308   |
| 2,500    | 486         | 149          | 147      | 244 | 488          | 247        |           | 379        |        |         |           | 330   |
| 3,000    | 530         | 108          | 132      | 254 | 529          | 253        |           | 408        |        |         |           | 346   |
| 4,000    | 608         |              | 28       | 259 | 599          | 248        |           | 452        |        |         |           | 360   |
| 5,000    | 675         |              |          | 246 | 656          | 216        |           | 484        |        |         |           | 353   |
| 6,000    | 734         |              |          | 211 | 703          | 141        |           | 505        |        |         |           | 324   |
| 7,000    | 787         |              |          | 138 | 742          |            |           | 517        |        |         |           | 265   |
| 8,000    | 835         |              |          |     | 774          |            |           | 520        |        |         |           | 143   |
| 9,000    | 879         |              |          |     | 801          |            |           | 516        |        |         |           |       |
| 10,000   | 919         |              |          |     | 822          |            |           | 502        |        |         |           |       |
| 15,000   | 1,082       |              |          |     | 858          |            |           | 235        |        |         |           |       |
| 20,000   | 1,196       |              |          |     | 783          |            |           |            |        |         |           |       |
| 25,000   | 1,275       |              |          |     | 554          |            |           |            |        |         |           |       |
| 30,000   | 1,326       |              |          |     |              |            |           |            |        |         |           |       |
| 40,000   | 1,351       |              |          |     |              |            |           |            |        |         |           |       |
| 50,000   | 1,279       |              |          |     |              |            |           |            |        |         |           |       |
| 60,000   | 1,089       |              |          |     |              |            |           |            |        |         |           |       |
| 70,000   | 692         |              |          |     |              |            |           |            |        |         |           |       |
| 80,000   |             |              |          |     |              |            |           |            |        |         |           |       |
| 90,000   |             |              |          |     |              |            |           |            |        |         |           |       |
| 100,000  |             |              |          |     |              |            |           |            |        |         |           |       |
| 150,000  |             |              |          |     |              |            |           |            |        |         |           |       |
| 200,000  |             |              |          |     |              |            |           |            |        |         |           |       |
| 230,000  |             |              |          |     |              |            |           |            |        |         |           |       |
| 250,000  |             |              |          |     |              |            |           |            |        |         |           |       |
| 300,000  |             |              |          |     |              |            |           |            |        |         |           |       |
| 350,000  |             |              |          |     |              |            |           |            |        |         |           |       |

SOURCE: Institute for Survey Research, Temple University

Table A-6. Generalized standard errors for recent science & engineering master's degree recipients, by field: 1990

| Estimate | Total Sci. & Eng. | Physical Sciences |           |                |                  | Math/ Stat. | Comput. Sci. | Environ. Sci. | Life Sciences |         |             | Psychology | Social Sciences |           |              |                   |
|----------|-------------------|-------------------|-----------|----------------|------------------|-------------|--------------|---------------|---------------|---------|-------------|------------|-----------------|-----------|--------------|-------------------|
|          |                   | Total             | Chemistry | Physics/Astro. | Other Phys. Sci. |             |              |               | Total         | Biology | Agric. Sci. |            | Total           | Economics | Soc./ Anthr. | Other Social Sci. |
| 25       | 45                | 22                | 21        | 22             | 23               | 29          | 33           | 22            | 46            | 53      | 32          | 45         | 50              | 47        | 39           | 52                |
| 50       | 63                | 31                | 30        | 31             | 32               | 41          | 46           | 31            | 65            | 75      | 45          | 64         | 70              | 66        | 55           | 73                |
| 75       | 77                | 38                | 36        | 38             | 39               | 50          | 56           | 37            | 79            | 91      | 55          | 78         | 86              | 80        | 66           | 89                |
| 100      | 89                | 43                | 41        | 44             | 44               | 58          | 64           | 43            | 91            | 105     | 63          | 90         | 99              | 92        | 76           | 103               |
| 200      | 126               | 60                | 56        | 60             | 58               | 81          | 91           | 59            | 128           | 148     | 88          | 125        | 139             | 127       | 104          | 144               |
| 300      | 154               | 73                | 67        | 71             | 66               | 98          | 110          | 71            | 156           | 179     | 106         | 151        | 170             | 152       | 124          | 174               |
| 400      | 178               | 83                | 74        | 80             | 70               | 112         | 127          | 80            | 179           | 205     | 121         | 172        | 195             | 172       | 139          | 200               |
| 500      | 199               | 92                | 80        | 86             | 71               | 124         | 141          | 88            | 199           | 227     | 133         | 190        | 217             | 188       | 151          | 221               |
| 750      | 243               | 109               | 88        | 97             | 57               | 148         | 171          | 101           | 240           | 272     | 156         | 225        | 262             | 217       | 169          | 265               |
| 1,000    | 280               | 121               | 90        | 100            |                  | 166         | 194          | 109           | 273           | 306     | 172         | 250        | 299             | 235       | 175          | 298               |
| 1,500    | 341               | 138               | 70        | 89             |                  | 192         | 232          | 112           | 325           | 356     | 189         | 282        | 357             | 243       | 155          | 347               |
| 2,000    | 393               | 146               |           | 32             |                  | 207         | 261          | 99            | 363           | 388     | 191         | 295        | 401             | 218       | 49           | 379               |
| 2,500    | 437               | 146               |           |                |                  | 214         | 284          | 60            | 393           | 406     | 177         | 291        | 436             | 142       |              | 398               |
| 3,000    | 477               | 140               |           |                |                  | 214         | 302          |               | 415           | 413     | 144         | 270        | 463             |           |              | 405               |
| 4,000    | 547               | 100               |           |                |                  | 191         | 327          |               | 441           | 392     |             | 146        | 500             |           |              | 387               |
| 5,000    | 607               |                   |           |                |                  | 123         | 340          |               | 448           | 317     |             |            | 518             |           |              | 319               |
| 6,000    | 659               |                   |           |                |                  |             | 341          |               | 435           | 102     |             |            | 517             |           |              | 137               |
| 7,000    | 707               |                   |           |                |                  |             | 332          |               | 401           |         |             |            | 500             |           |              |                   |
| 8,000    | 749               |                   |           |                |                  |             | 311          |               | 339           |         |             |            | 462             |           |              |                   |
| 9,000    | 788               |                   |           |                |                  |             | 275          |               | 228           |         |             |            | 399             |           |              |                   |
| 10,000   | 824               |                   |           |                |                  |             | 218          |               |               |         |             |            | 296             |           |              |                   |
| 15,000   | 967               |                   |           |                |                  |             |              |               |               |         |             |            |                 |           |              |                   |
| 20,000   | 1,065             |                   |           |                |                  |             |              |               |               |         |             |            |                 |           |              |                   |
| 25,000   | 1,130             |                   |           |                |                  |             |              |               |               |         |             |            |                 |           |              |                   |
| 30,000   | 1,168             |                   |           |                |                  |             |              |               |               |         |             |            |                 |           |              |                   |
| 40,000   | 1,170             |                   |           |                |                  |             |              |               |               |         |             |            |                 |           |              |                   |
| 50,000   | 1,072             |                   |           |                |                  |             |              |               |               |         |             |            |                 |           |              |                   |
| 60,000   | 839               |                   |           |                |                  |             |              |               |               |         |             |            |                 |           |              |                   |
| 70,000   | 186               |                   |           |                |                  |             |              |               |               |         |             |            |                 |           |              |                   |
| 80,000   |                   |                   |           |                |                  |             |              |               |               |         |             |            |                 |           |              |                   |
| 90,000   |                   |                   |           |                |                  |             |              |               |               |         |             |            |                 |           |              |                   |
| 100,000  |                   |                   |           |                |                  |             |              |               |               |         |             |            |                 |           |              |                   |
| 150,000  |                   |                   |           |                |                  |             |              |               |               |         |             |            |                 |           |              |                   |
| 200,000  |                   |                   |           |                |                  |             |              |               |               |         |             |            |                 |           |              |                   |
| 230,000  |                   |                   |           |                |                  |             |              |               |               |         |             |            |                 |           |              |                   |
| 250,000  |                   |                   |           |                |                  |             |              |               |               |         |             |            |                 |           |              |                   |
| 300,000  |                   |                   |           |                |                  |             |              |               |               |         |             |            |                 |           |              |                   |
| 350,000  |                   |                   |           |                |                  |             |              |               |               |         |             |            |                 |           |              |                   |

See SOURCE at end of table.

Table A-6. Generalized standard errors for recent science & engineering master's degree recipients, by field: 1990

| Estimate | Engineering |              |          |       |              |            |           |            |        |         |           |       |
|----------|-------------|--------------|----------|-------|--------------|------------|-----------|------------|--------|---------|-----------|-------|
|          | Total       | Aero./astro. | Chemical | Civil | Elec./elect. | Industrial | Materials | Mechanical | Mining | Nuclear | Petroleum | Other |
| 25       | 35          | 28           | 15       | 23    | 48           | 24         | 16        | 34         | 11     | 15      | 9         | 23    |
| 50       | 49          | 38           | 21       | 32    | 67           | 33         | 22        | 47         | 14     | 21      | 11        | 32    |
| 75       | 60          | 46           | 26       | 39    | 82           | 40         | 26        | 58         | 16     | 24      | 12        | 39    |
| 100      | 69          | 53           | 29       | 44    | 95           | 45         | 29        | 66         | 17     | 26      | 13        | 45    |
| 200      | 98          | 70           | 39       | 61    | 133          | 62         | 39        | 92         | 14     | 26      | 7         | 62    |
| 300      | 119         | 80           | 45       | 73    | 161          | 72         | 43        | 111        |        |         |           | 75    |
| 400      | 137         | 86           | 48       | 83    | 185          | 79         | 45        | 127        |        |         |           | 85    |
| 500      | 153         | 88           | 50       | 90    | 205          | 84         | 45        | 140        |        |         |           | 93    |
| 750      | 186         | 78           | 47       | 103   | 246          | 87         | 31        | 165        |        |         |           | 110   |
| 1,000    | 213         | 29           | 31       | 111   | 279          | 79         |           | 184        |        |         |           | 121   |
| 1,500    | 258         |              |          | 112   | 327          |            |           | 207        |        |         |           | 133   |
| 2,000    | 294         |              |          | 95    | 361          |            |           | 215        |        |         |           | 135   |
| 2,500    | 325         |              |          | 40    | 383          |            |           | 211        |        |         |           | 126   |
| 3,000    | 351         |              |          |       | 397          |            |           | 194        |        |         |           | 103   |
| 4,000    | 395         |              |          |       | 400          |            |           | 88         |        |         |           |       |
| 5,000    | 429         |              |          |       | 370          |            |           |            |        |         |           |       |
| 6,000    | 456         |              |          |       | 299          |            |           |            |        |         |           |       |
| 7,000    | 477         |              |          |       | 129          |            |           |            |        |         |           |       |
| 8,000    | 492         |              |          |       |              |            |           |            |        |         |           |       |
| 9,000    | 503         |              |          |       |              |            |           |            |        |         |           |       |
| 10,000   | 510         |              |          |       |              |            |           |            |        |         |           |       |
| 15,000   | 477         |              |          |       |              |            |           |            |        |         |           |       |
| 20,000   | 294         |              |          |       |              |            |           |            |        |         |           |       |
| 25,000   |             |              |          |       |              |            |           |            |        |         |           |       |
| 30,000   |             |              |          |       |              |            |           |            |        |         |           |       |
| 40,000   |             |              |          |       |              |            |           |            |        |         |           |       |
| 50,000   |             |              |          |       |              |            |           |            |        |         |           |       |
| 60,000   |             |              |          |       |              |            |           |            |        |         |           |       |
| 70,000   |             |              |          |       |              |            |           |            |        |         |           |       |
| 80,000   |             |              |          |       |              |            |           |            |        |         |           |       |
| 90,000   |             |              |          |       |              |            |           |            |        |         |           |       |
| 100,000  |             |              |          |       |              |            |           |            |        |         |           |       |
| 150,000  |             |              |          |       |              |            |           |            |        |         |           |       |
| 200,000  |             |              |          |       |              |            |           |            |        |         |           |       |
| 230,000  |             |              |          |       |              |            |           |            |        |         |           |       |
| 250,000  |             |              |          |       |              |            |           |            |        |         |           |       |
| 300,000  |             |              |          |       |              |            |           |            |        |         |           |       |
| 350,000  |             |              |          |       |              |            |           |            |        |         |           |       |

SOURCE: Institute for Survey Research, Temple University

## Section B. Detailed Statistical Tables

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Table B-1. 1988 science and engineering bachelor's-degree recipients, by field of degree, sex, and graduate school status: 1990

| Field of degree and sex | Total   | Graduate school status |                   |            |       |           |
|-------------------------|---------|------------------------|-------------------|------------|-------|-----------|
|                         |         | Full-time student      | Part-time student | Nonstudent | Other | No report |
| Total, all fields.....  | 319,800 | 65,200                 | 38,900            | 212,500    | 2,800 | 400       |
| Men.....                | 195,000 | 39,100                 | 21,100            | 133,200    | 1,200 | 300       |
| Women.....              | 124,800 | 26,000                 | 17,800            | 79,300     | 1,600 | 100       |
| Total sciences.....     | 246,300 | 58,100                 | 28,700            | 157,200    | 2,200 | 100       |
| Men.....                | 132,300 | 33,300                 | 12,600            | 85,700     | 1,700 | 100       |
| Women.....              | 114,000 | 24,900                 | 16,100            | 71,500     | 1,500 | 100       |
| Physical sciences.....  | 15,100  | 5,900                  | 1,400             | 7,800      | S     | S         |
| Men.....                | 11,000  | 4,400                  | 1,000             | 5,700      | S     | S         |
| Women.....              | 4,000   | 1,400                  | 400               | 2,200      | S     | S         |
| Chemistry.....          | 8,600   | 3,500                  | 700               | 4,400      | S     | S         |
| Men.....                | 5,500   | 2,300                  | 400               | 2,800      | S     | S         |
| Women.....              | 3,100   | 1,200                  | 300               | 1,600      | S     | S         |
| Physics/astronomy.....  | 4,600   | 2,200                  | 400               | 1,900      | S     | S         |
| Men.....                | 4,100   | 2,100                  | 300               | 1,700      | S     | S         |
| Women.....              | 500     | 100                    | 100               | 300        | S     | S         |
| Other phys sciences...  | 1,900   | 100                    | 300               | 1,400      | S     | S         |
| Men.....                | 1,500   | 100                    | 300               | 1,200      | S     | S         |
| Women.....              | 400     | 100                    | S                 | 300        | S     | S         |
| Math/statistics.....    | 16,600  | 2,800                  | 2,700             | 11,000     | 100   | S         |
| Men.....                | 8,600   | 1,700                  | 1,100             | 5,800      | 100   | S         |
| Women.....              | 8,000   | 1,100                  | 1,600             | 5,300      | S     | S         |
| Computer science.....   | 34,500  | 1,700                  | 3,800             | 28,700     | 100   | 100       |
| Men.....                | 24,200  | 1,500                  | 2,400             | 20,200     | 100   | 100       |
| Women.....              | 10,300  | 200                    | 1,400             | 8,500      | 100   | S         |
| Environ science.....    | 3,900   | 1,200                  | 500               | 2,200      | S     | S         |
| Men.....                | 2,800   | 800                    | 400               | 1,600      | S     | S         |
| Women.....              | 1,100   | 400                    | 100               | 600        | S     | S         |
| Life sciences.....      | 58,400  | 20,600                 | 6,600             | 30,600     | 600   | S         |
| Men.....                | 31,100  | 12,700                 | 1,900             | 15,100     | 300   | S         |
| Women.....              | 27,300  | 7,900                  | 4,600             | 14,500     | 300   | S         |
| Biology.....            | 42,100  | 17,200                 | 4,900             | 19,500     | 500   | S         |
| Men.....                | 21,400  | 10,500                 | 1,300             | 9,400      | 200   | S         |
| Women.....              | 20,700  | 6,700                  | 3,600             | 10,100     | 300   | S         |
| Agr science.....        | 16,200  | 3,400                  | 1,600             | 11,100     | 100   | S         |
| Men.....                | 9,600   | 2,200                  | 600               | 6,700      | 100   | S         |
| Women.....              | 6,600   | 1,200                  | 1,000             | 4,400      | S     | S         |
| Psychology.....         | 41,500  | 8,300                  | 5,800             | 26,600     | 800   | S         |
| Men.....                | 13,800  | 3,300                  | 2,100             | 8,500      | S     | S         |
| Women.....              | 27,700  | 5,000                  | 3,700             | 18,100     | 800   | S         |
| Social sciences.....    | 76,400  | 17,700                 | 8,000             | 50,200     | 600   | S         |
| Men.....                | 40,800  | 8,900                  | 3,800             | 27,900     | 200   | S         |
| Women.....              | 35,700  | 8,800                  | 4,200             | 22,400     | 300   | S         |
| Economics.....          | 23,600  | 4,500                  | 1,400             | 17,300     | 300   | S         |
| Men.....                | 15,100  | 2,700                  | 900               | 11,500     | S     | S         |
| Women.....              | 8,500   | 1,700                  | 600               | 5,800      | 300   | S         |
| Socio/anthro.....       | 17,400  | 3,800                  | 2,600             | 10,800     | 200   | S         |
| Men.....                | 5,400   | 1,200                  | 1,100             | 3,000      | 200   | S         |
| Women.....              | 12,000  | 2,600                  | 1,600             | 7,900      | S     | S         |
| Other soc sciences....  | 35,400  | 9,400                  | 4,000             | 22,100     | S     | S         |
| Men.....                | 20,200  | 4,900                  | 1,900             | 13,400     | S     | S         |
| Women.....              | 15,200  | 4,500                  | 2,100             | 8,700      | S     | S         |

See explanatory information and SOURCE at end of table.

Table B-1. 1988 science and engineering bachelor's-degree recipients, by field of degree, sex, and graduate school status: 1990

| Field of degree and sex | Total  | Graduate school status |                   |            |       |           |
|-------------------------|--------|------------------------|-------------------|------------|-------|-----------|
|                         |        | Full-time student      | Part-time student | Nonstudent | Other | No report |
| Total engineering.....  | 73,400 | 7,000                  | 10,200            | 55,300     | 600   | 200       |
| Men.....                | 62,700 | 5,900                  | 8,500             | 47,500     | 600   | 200       |
| Women.....              | 10,700 | 1,200                  | 1,700             | 7,800      | S     | S         |
| Aero/astro.....         | 3,400  | 400                    | 600               | 2,400      | S     | S         |
| Men.....                | 3,000  | 300                    | 500               | 2,200      | S     | S         |
| Women.....              | 400    | 100                    | 100               | 200        | S     | S         |
| Chemical.....           | 3,600  | 500                    | 500               | 2,600      | S     | S         |
| Men.....                | 2,500  | 400                    | 300               | 1,900      | S     | S         |
| Women.....              | 1,100  | 100                    | 300               | 700        | S     | S         |
| Civil.....              | 7,600  | 600                    | 800               | 6,100      | 100   | S         |
| Men.....                | 6,300  | 500                    | 600               | 5,100      | 100   | S         |
| Women.....              | 1,300  | 100                    | 100               | 1,000      | S     | S         |
| Elect/electron.....     | 27,200 | 2,300                  | 4,200             | 20,200     | 200   | 200       |
| Men.....                | 23,900 | 1,800                  | 3,900             | 17,900     | 200   | 200       |
| Women.....              | 3,200  | 600                    | 400               | 2,300      | S     | S         |
| Industrial.....         | 6,500  | 200                    | 1,200             | 5,000      | 100   | S         |
| Men.....                | 5,400  | 200                    | 900               | 4,200      | 100   | S         |
| Women.....              | 1,100  | S                      | 300               | 800        | S     | S         |
| Materials.....          | 900    | 200                    | 100               | 600        | S     | S         |
| Men.....                | 700    | 100                    | 100               | 500        | S     | S         |
| Women.....              | 200    | S                      | S                 | 100        | S     | S         |
| Mechanical.....         | 14,100 | 1,200                  | 1,500             | 11,300     | 100   | S         |
| Men.....                | 12,300 | 1,100                  | 1,400             | 9,700      | 100   | S         |
| Women.....              | 1,900  | 100                    | 200               | 1,600      | S     | S         |
| Mining.....             | 700    | 100                    | S                 | 500        | S     | S         |
| Men.....                | 600    | 100                    | S                 | 400        | S     | S         |
| Women.....              | 100    | S                      | S                 | 100        | S     | S         |
| Nuclear.....            | 500    | 100                    | 100               | 300        | S     | S         |
| Men.....                | 400    | 100                    | S                 | 300        | S     | S         |
| Women.....              | 100    | S                      | S                 | S          | S     | S         |
| Petroleum.....          | 700    | 200                    | S                 | 500        | S     | S         |
| Men.....                | 700    | 200                    | S                 | 400        | S     | S         |
| Women.....              | S      | S                      | S                 | S          | S     | S         |
| Other engineering.....  | 8,300  | 1,200                  | 1,100             | 5,900      | S     | 100       |
| Men.....                | 6,900  | 1,100                  | 800               | 5,000      | S     | 100       |
| Women.....              | 1,400  | 100                    | 300               | 900        | S     | S         |

KEY: S = Data suppressed for statistical reasons

NOTES: Because of rounding, components may not add to totals.

SOURCE: National Science Foundation/SRS, 1990 New Entrants Survey

Table B-2. 1988 science and engineering (S&E) bachelor's-degree recipients, by field of degree, employment status, and sex: 1990

| Field of degree        | Total population |         |         | Total employed |         |         | Employed in S&E occupation |         |        |
|------------------------|------------------|---------|---------|----------------|---------|---------|----------------------------|---------|--------|
|                        | Total            | Men     | Women   | Total          | Men     | Women   | Total                      | Men     | Women  |
| Total, all fields..... | 320,000          | 195,000 | 124,800 | 272,500        | 167,200 | 105,000 | 169,800                    | 118,100 | 51,600 |
| Total sciences.....    | 246,600          | 132,300 | 114,000 | 204,500        | 109,000 | 95,300  | 108,300                    | 65,900  | 42,400 |
| Physical sciences..... | 15,100           | 11,000  | 4,000   | 11,700         | 8,500   | 3,300   | 9,800                      | 7,100   | 2,700  |
| Chemistry.....         | 8,600            | 5,500   | 3,100   | 6,200          | 3,600   | 2,500   | 5,300                      | 3,100   | 2,200  |
| Physics/astronomy..... | 4,600            | 4,100   | 500     | 3,900          | 3,400   | 500     | 3,600                      | 3,200   | 400    |
| Other phys sciences... | 1,900            | 1,500   | 400     | 1,700          | 1,400   | 300     | 900                        | 800     | 100    |
| Math/statistics.....   | 16,600           | 8,600   | 8,000   | 15,000         | 7,900   | 7,100   | 11,100                     | 5,300   | 5,800  |
| Computer science.....  | 34,500           | 24,200  | 10,300  | 32,600         | 23,000  | 9,600   | 28,300                     | 20,000  | 8,300  |
| Environ science.....   | 3,900            | 2,800   | 1,100   | 3,500          | 2,500   | 1,000   | 2,700                      | 2,200   | 500    |
| Life sciences.....     | 58,400           | 31,100  | 27,300  | 41,600         | 20,400  | 21,200  | 28,400                     | 16,700  | 11,700 |
| Biology.....           | 42,100           | 21,400  | 20,700  | 27,400         | 12,000  | 15,400  | 19,300                     | 10,200  | 9,100  |
| Agr science.....       | 16,200           | 9,600   | 6,600   | 14,200         | 8,400   | 5,800   | 9,100                      | 6,400   | 2,600  |
| Psychology.....        | 41,500           | 13,800  | 27,700  | 34,800         | 11,400  | 23,300  | 10,000                     | 4,100   | 5,900  |
| Social sciences.....   | 76,700           | 40,800  | 35,700  | 65,300         | 35,300  | 29,900  | 18,100                     | 10,600  | 7,500  |
| Economics.....         | 23,600           | 15,100  | 8,500   | 20,700         | 13,400  | 7,300   | 5,900                      | 4,500   | 1,300  |
| Socio/anthro.....      | 17,400           | 5,400   | 12,000  | 15,900         | 5,400   | 10,400  | 3,500                      | 1,500   | 2,000  |
| Other soc sciences.... | 35,600           | 20,200  | 15,200  | 28,800         | 16,400  | 12,200  | 8,700                      | 4,600   | 4,100  |
| Total engineering..... | 73,500           | 62,700  | 10,700  | 68,000         | 58,300  | 9,700   | 61,500                     | 52,200  | 9,300  |
| Aero/astro.....        | 3,400            | 3,000   | 400     | 3,200          | 2,800   | 400     | 2,600                      | 2,200   | 400    |
| Chemical.....          | 3,600            | 2,500   | 1,100   | 3,300          | 2,200   | 1,000   | 3,100                      | 2,100   | 1,000  |
| Civil.....             | 7,600            | 6,300   | 1,300   | 7,200          | 6,000   | 1,200   | 6,700                      | 5,700   | 1,000  |
| Elect/electron.....    | 27,200           | 23,900  | 3,200   | 24,900         | 22,200  | 2,700   | 22,900                     | 20,100  | 2,800  |
| Industrial.....        | 6,500            | 5,400   | 1,100   | 6,300          | 5,300   | 1,000   | 5,300                      | 4,300   | 900    |
| Materials.....         | 900              | 700     | 200     | 800            | 600     | 100     | 800                        | 600     | 200    |
| Mechanical.....        | 14,100           | 12,300  | 1,900   | 13,400         | 11,600  | 1,800   | 12,600                     | 10,900  | 1,700  |
| Mining.....            | 700              | 600     | 100     | 600            | 600     | 100     | 500                        | 500     | 100    |
| Nuclear.....           | 500              | 400     | 100     | 400            | 300     | 100     | 400                        | 300     | 100    |
| Petroleum.....         | 700              | 700     | 5       | 500            | 500     | 5       | 600                        | 600     | 5      |
| Other engineering..... | 8,300            | 6,900   | 1,400   | 7,500          | 6,100   | 1,400   | 6,100                      | 5,000   | 1,100  |

See explanatory information and SOURCE at end of table.

Table B-2. 1988 science and engineering (S&E) bachelor's-degree recipients, by field of degree, employment status, and sex: 1990

| Field of degree        | Unemployed |       |       | Outside labor force |        |        |
|------------------------|------------|-------|-------|---------------------|--------|--------|
|                        | Total      | Men   | Women | Total               | Men    | Women  |
| Total, all fields..... | 9,300      | 5,700 | 3,600 | 38,300              | 22,100 | 16,200 |
| Total sciences.....    | 7,300      | 4,000 | 3,300 | 34,800              | 19,300 | 15,400 |
| Physical sciences..... | 600        | 500   | 100   | 2,700               | 2,100  | 600    |
| Chemistry.....         | 400        | 400   | S     | 2,100               | 1,500  | 600    |
| Physics/astronomy..... | 100        | 100   | S     | 600                 | 500    | S      |
| Other phys sciences... | 100        | S     | 100   | 100                 | 100    | S      |
| Math/statistics.....   | 200        | 100   | 100   | 1,400               | 600    | 800    |
| Computer science.....  | 800        | 500   | 300   | 1,100               | 700    | 400    |
| Environ science.....   | 200        | 100   | S     | 300                 | 200    | 100    |
| Life sciences.....     | 2,600      | 1,300 | 1,400 | 14,200              | 9,400  | 4,800  |
| Biology.....           | 2,400      | 1,100 | 1,200 | 12,400              | 8,300  | 4,100  |
| Agr science.....       | 200        | 100   | 100   | 1,800               | 1,200  | 600    |
| Psychology.....        | 1,300      | 900   | 400   | 5,400               | 1,500  | 3,900  |
| Social sciences.....   | 1,700      | 700   | 900   | 9,600               | 4,800  | 4,900  |
| Economics.....         | 400        | 300   | S     | 2,600               | 1,400  | 1,200  |
| Socio/anthro.....      | 600        | S     | 600   | 1,000               | S      | 1,000  |
| Other soc sciences.... | 700        | 400   | 300   | 6,100               | 3,400  | 2,700  |
| Total engineering..... | 1,900      | 1,600 | 300   | 3,500               | 2,800  | 700    |
| Aero/astro.....        | 100        | 100   | S     | 100                 | 100    | S      |
| Chemical.....          | 100        | 100   | S     | 300                 | 200    | S      |
| Civil.....             | 100        | 100   | S     | 300                 | 200    | 100    |
| Elect/electron.....    | 1,100      | 800   | 300   | 1,100               | 900    | 300    |
| Industrial.....        | 100        | 100   | S     | 200                 | 100    | 100    |
| Materials.....         | S          | S     | S     | 100                 | 100    | S      |
| Mechanical.....        | 300        | 300   | S     | 500                 | 400    | 100    |
| Mining.....            | S          | S     | S     | S                   | S      | S      |
| Nuclear.....           | S          | S     | S     | S                   | S      | S      |
| Petroleum.....         | S          | S     | S     | 200                 | 200    | S      |
| Other engineering..... | 200        | 200   | S     | 700                 | 700    | S      |

KEY: S = Data suppressed for statistical reasons

NOTES: Because of rounding, components may not add to totals.

SOURCE: National Science Foundation/SRS, 1990 New Entrants Survey

Table B-3. 1988 science and engineering (S&E) bachelor's-degree recipients, by field of degree, employment status, and racial/ethnic group: 1990

| Field of degree        | Total population |         |        |        |                 |             | Total employed |         |        |        |                 |             |
|------------------------|------------------|---------|--------|--------|-----------------|-------------|----------------|---------|--------|--------|-----------------|-------------|
|                        | Total            | White   | Black  | Asian  | Native American | Hispanic 1/ | Total          | White   | Black  | Asian  | Native American | Hispanic 1/ |
| Total, all fields..... | 320,000          | 260,900 | 15,600 | 14,700 | 1,400           | 10,400      | 272,500        | 223,600 | 12,600 | 11,300 | 1,100           | 8,900       |
| Total sciences.....    | 246,600          | 201,700 | 12,300 | 9,600  | 900             | 7,300       | 204,500        | 167,700 | 9,700  | 7,300  | 700             | 6,300       |
| Physical sciences..... | 15,100           | 12,100  | 600    | 1,100  | S               | 400         | 11,700         | 9,900   | 500    | 600    | S               | 300         |
| Chemistry.....         | 8,600            | 6,400   | 300    | 1,000  | S               | 300         | 6,200          | 4,900   | 200    | 500    | S               | 200         |
| Physics/astronomy..... | 4,600            | 4,100   | 100    | 100    | S               | 100         | 3,900          | 3,600   | S      | 100    | S               | 100         |
| Other phys sciences... | 1,900            | 1,600   | 300    | S      | S               | S           | 1,700          | 1,500   | 300    | S      | S               | S           |
| Math/statistics.....   | 16,600           | 13,600  | 900    | 800    | 100             | 400         | 15,000         | 12,300  | 800    | 600    | 100             | 200         |
| Computer science.....  | 34,500           | 26,500  | 2,000  | 2,700  | 100             | 1,200       | 32,600         | 25,400  | 1,800  | 2,300  | 100             | 1,000       |
| Environ science.....   | 3,900            | 3,600   | S      | S      | S               | 100         | 3,500          | 3,300   | S      | S      | S               | 100         |
| Life sciences.....     | 58,400           | 47,900  | 2,600  | 1,500  | 100             | 1,200       | 41,600         | 34,200  | 1,600  | 900    | 100             | 900         |
| Biology.....           | 42,100           | 34,200  | 2,000  | 1,100  | S               | 900         | 27,400         | 22,400  | 1,100  | 600    | S               | 600         |
| Agr science.....       | 16,200           | 13,700  | 600    | 300    | S               | 300         | 14,200         | 11,800  | 500    | 300    | S               | 300         |
| Psychology.....        | 41,500           | 33,200  | 2,300  | 900    | 200             | 1,700       | 34,800         | 27,700  | 1,700  | 400    | 200             | 1,500       |
| Social sciences.....   | 76,700           | 64,900  | 3,900  | 2,700  | 400             | 2,400       | 65,300         | 54,900  | 3,200  | 2,500  | 200             | 2,300       |
| Economics.....         | 23,600           | 19,200  | 1,900  | 1,300  | 200             | 500         | 20,700         | 16,900  | 1,500  | 1,200  | S               | 500         |
| Socio/anthro.....      | 17,400           | 14,800  | 900    | 400    | 200             | 200         | 15,900         | 13,600  | 800    | 200    | 200             | 200         |
| Other soc sciences.... | 35,600           | 30,800  | 1,100  | 1,000  | S               | 1,600       | 28,800         | 24,500  | 900    | 1,000  | S               | 1,600       |
| Total engineering..... | 73,500           | 59,100  | 3,200  | 5,100  | 500             | 3,100       | 68,000         | 55,900  | 2,800  | 4,000  | 400             | 2,600       |
| Aero/astro.....        | 3,400            | 3,100   | S      | 100    | S               | 200         | 3,200          | 2,900   | S      | 100    | S               | 100         |
| Chemical.....          | 3,600            | 2,700   | 100    | 300    | S               | 200         | 3,300          | 2,500   | 100    | 200    | S               | 100         |
| Civil.....             | 7,600            | 6,400   | 200    | 400    | 100             | 500         | 7,200          | 6,100   | 200    | 300    | 100             | 500         |
| Elect/electron.....    | 27,200           | 20,200  | 1,600  | 3,000  | 200             | 1,100       | 24,900         | 19,100  | 1,300  | 2,400  | 200             | 800         |
| Industrial.....        | 6,500            | 5,200   | 500    | 300    | S               | 500         | 6,300          | 5,000   | 400    | 200    | S               | 500         |
| Materials.....         | 900              | 800     | S      | S      | S               | S           | 800            | 700     | S      | S      | S               | S           |
| Mechanical.....        | 14,100           | 12,200  | 500    | 600    | 100             | 300         | 13,400         | 11,700  | 500    | 500    | 100             | 300         |
| Mining.....            | 700              | 600     | S      | S      | S               | S           | 600            | 600     | S      | S      | S               | S           |
| Nuclear.....           | 500              | 400     | S      | S      | S               | S           | 400            | 400     | S      | S      | S               | S           |
| Petroleum.....         | 700              | 600     | S      | S      | S               | 100         | 500            | 400     | S      | S      | S               | 100         |
| Other engineering....  | 8,300            | 7,000   | 300    | 400    | S               | 200         | 7,500          | 6,600   | 300    | 200    | S               | 100         |

  

| Field of degree        | Employed in S&E occupation |         |       |       |                 |             | Unemployed |       |       |       |                 |             |
|------------------------|----------------------------|---------|-------|-------|-----------------|-------------|------------|-------|-------|-------|-----------------|-------------|
|                        | Total                      | White   | Black | Asian | Native American | Hispanic 1/ | Total      | White | Black | Asian | Native American | Hispanic 1/ |
| Total, all fields..... | 169,800                    | 137,000 | 7,500 | 9,000 | 1,300           | 6,500       | 9,300      | 6,000 | 1,200 | 900   | 100             | 300         |
| Total sciences.....    | 108,300                    | 87,300  | 5,100 | 5,000 | 800             | 4,000       | 7,300      | 5,100 | 1,000 | 300   | S               | 200         |
| Physical sciences..... | 9,800                      | 8,100   | 200   | 600   | S               | 300         | 600        | 300   | S     | S     | S               | S           |
| Chemistry.....         | 5,300                      | 3,900   | 200   | 600   | S               | 200         | 400        | 100   | S     | S     | S               | S           |
| Physics/astronomy..... | 3,600                      | 3,200   | S     | 100   | S               | 100         | 100        | 100   | S     | S     | S               | S           |
| Other phys sciences... | 900                        | 900     | S     | S     | S               | S           | 100        | 100   | S     | S     | S               | S           |
| Math/statistics.....   | 11,100                     | 9,100   | 400   | 500   | 100             | 200         | 200        | 200   | S     | S     | S               | S           |
| Computer science.....  | 23,300                     | 22,300  | 1,500 | 2,300 | 100             | 800         | 800        | 400   | 100   | 100   | S               | 100         |
| Environ science.....   | 2,700                      | 2,500   | S     | S     | S               | 100         | 200        | 100   | S     | S     | S               | S           |
| Life sciences.....     | 28,400                     | 23,900  | 1,200 | 800   | 100             | 600         | 2,600      | 1,500 | 400   | 200   | S               | 100         |
| Biology.....           | 19,300                     | 16,100  | 900   | 600   | S               | 400         | 2,400      | 1,400 | 400   | 200   | S               | S           |
| Agr science.....       | 9,100                      | 7,800   | 300   | 200   | S               | 200         | 200        | 200   | S     | S     | S               | S           |
| Psychology.....        | 10,000                     | 7,000   | 500   | 200   | 200             | 1,100       | 1,300      | 1,300 | S     | S     | S               | S           |
| Social sciences.....   | 18,100                     | 14,400  | 1,300 | 500   | 400             | 900         | 1,700      | 1,200 | 400   | S     | S               | S           |
| Economics.....         | 5,900                      | 4,900   | 500   | S     | 200             | S           | 400        | 200   | 200   | S     | S               | S           |
| Socio/anthro.....      | 3,500                      | 2,800   | 400   | S     | 200             | S           | 600        | 500   | 100   | S     | S               | S           |
| Other soc sciences.... | 8,700                      | 6,700   | 400   | 500   | S               | 900         | 700        | 600   | 100   | S     | S               | S           |
| Total engineering..... | 61,500                     | 49,700  | 2,400 | 4,000 | 500             | 2,500       | 1,900      | 1,000 | 200   | 600   | S               | 100         |
| Aero/astro.....        | 2,600                      | 2,300   | S     | 100   | S               | 100         | 100        | 100   | S     | S     | S               | S           |
| Chemical.....          | 3,100                      | 2,400   | 100   | 200   | S               | 100         | 100        | S     | S     | S     | S               | S           |
| Civil.....             | 6,700                      | 5,600   | 200   | 300   | 100             | 500         | 100        | 100   | S     | S     | S               | S           |
| Elect/electron.....    | 22,900                     | 17,100  | 1,200 | 2,500 | 200             | 800         | 1,100      | 400   | 200   | 400   | S               | 100         |
| Industrial.....        | 5,300                      | 4,200   | 300   | 300   | S               | 400         | 500        | 100   | S     | S     | S               | S           |
| Materials.....         | 800                        | 700     | S     | S     | S               | S           | S          | S     | S     | S     | S               | S           |
| Mechanical.....        | 12,600                     | 10,900  | 400   | 500   | 100             | 300         | 300        | 200   | S     | 100   | S               | S           |
| Mining.....            | 500                        | 500     | S     | S     | S               | S           | S          | S     | S     | S     | S               | S           |
| Nuclear.....           | 400                        | 300     | S     | S     | S               | S           | S          | S     | S     | S     | S               | S           |
| Petroleum.....         | 600                        | 600     | S     | S     | S               | 100         | S          | S     | S     | S     | S               | S           |
| Other engineering....  | 6,100                      | 5,100   | 200   | 200   | S               | 200         | 200        | 100   | S     | 100   | S               | S           |

See explanatory information and SOURCE at end of table.

Table B-3. 1988 science and engineering (S&E) bachelor's-degree recipients, by field of degree, employment status, and racial/ethnic group: 1990

| Field of degree          | Outside labor force |        |       |       |                 |             |
|--------------------------|---------------------|--------|-------|-------|-----------------|-------------|
|                          | Total               | White  | Black | Asian | Native American | Hispanic 1/ |
| Total, all fields.....   | 38,300              | 31,200 | 1,900 | 2,500 | 200             | 1,200       |
| Total sciences.....      | 34,800              | 29,000 | 1,700 | 1,900 | 200             | 900         |
| Physical sciences.....   | 2,700               | 1,900  | 100   | 500   | S               | 100         |
| Chemistry.....           | 2,100               | 1,400  | S     | 400   | S               | 100         |
| Physics/astronomy.....   | 600                 | 500    | S     | S     | S               | S           |
| Other phys sciences..... | 100                 | 100    | S     | S     | S               | S           |
| Math/statistics.....     | 1,400               | 1,100  | 100   | 100   | S               | 200         |
| Computer science.....    | 1,100               | 800    | 100   | 300   | S               | S           |
| Environ science.....     | 300                 | 200    | S     | S     | S               | S           |
| Life sciences.....       | 14,200              | 12,100 | 500   | 400   | S               | 200         |
| Biology.....             | 12,400              | 10,400 | 500   | 300   | S               | 200         |
| Agr science.....         | 1,800               | 1,700  | S     | 100   | S               | S           |
| Psychology.....          | 5,400               | 4,200  | 600   | 400   | S               | 200         |
| Social sciences.....     | 9,600               | 8,700  | 300   | 200   | 200             | 100         |
| Economics.....           | 2,600               | 2,200  | 200   | S     | 200             | S           |
| Socio/anthro.....        | 1,000               | 800    | S     | 200   | S               | S           |
| Other soc sciences.....  | 6,100               | 5,700  | 100   | S     | S               | 100         |
| Total engineering.....   | 3,500               | 2,300  | 200   | 600   | S               | 400         |
| Aero/astro.....          | 100                 | 100    | S     | S     | S               | S           |
| Chemical.....            | 300                 | 200    | S     | S     | S               | S           |
| Civil.....               | 300                 | 200    | S     | 100   | S               | S           |
| Elect/electron.....      | 1,100               | 600    | 100   | 300   | S               | 200         |
| Industrial.....          | 200                 | 100    | S     | S     | S               | S           |
| Materials.....           | 100                 | 100    | S     | S     | S               | S           |
| Mechanical.....          | 500                 | 400    | S     | 100   | S               | S           |
| Mining.....              | S                   | S      | S     | S     | S               | S           |
| Nuclear.....             | S                   | S      | S     | S     | S               | S           |
| Petroleum.....           | 200                 | 200    | S     | S     | S               | S           |
| Other engineering.....   | 700                 | 300    | S     | 100   | S               | 100         |

1/ Includes members of all racial groups

KEY: S = Data suppressed for statistical reasons

NOTES: Components will not add to totals because (a) racial and ethnic categories are not mutually exclusive, (b) total includes "other" and "no report," and (c) both components and totals have been rounded.

SOURCE: National Science Foundation/SRS, 1990 New Entrants Survey

Table B-4. 1988 science and engineering (S&E) bachelor's-degree recipients, by field of degree, employment status, and sex: 1990

| Field of degree        | Total population |         |        | Total employed |         |        | Employed in S&E occupation |        |        |
|------------------------|------------------|---------|--------|----------------|---------|--------|----------------------------|--------|--------|
|                        | Total            | Men     | Women  | Total          | Men     | Women  | Total                      | Men    | Women  |
| Total, all fields..... | 254,800          | 155,900 | 98,700 | 240,800        | 148,800 | 91,700 | 140,900                    | 98,500 | 42,400 |
| Total sciences.....    | 188,400          | 99,000  | 89,200 | 176,700        | 94,000  | 82,600 | 85,700                     | 51,400 | 34,300 |
| Physical sciences..... | 9,200            | 6,600   | 2,600  | 8,600          | 6,100   | 2,500  | 5,900                      | 4,200  | 1,700  |
| Chemistry.....         | 5,100            | 3,200   | 1,900  | 4,700          | 2,800   | 1,900  | 3,400                      | 2,100  | 1,300  |
| Physics/astronomy..... | 2,400            | 2,000   | 400    | 2,200          | 1,900   | 400    | 1,600                      | 1,400  | 300    |
| Other phys sciences... | 1,800            | 1,400   | 300    | 1,700          | 1,400   | 200    | 800                        | 800    | 100    |
| Math/statistics.....   | 13,800           | 6,900   | 6,900  | 13,200         | 6,800   | 6,500  | 9,100                      | 4,200  | 4,900  |
| Computer science.....  | 32,800           | 22,700  | 10,000 | 31,500         | 22,100  | 9,400  | 26,300                     | 18,500 | 7,800  |
| Environ science.....   | 2,700            | 2,000   | 700    | 2,500          | 1,900   | 600    | 1,800                      | 1,400  | 300    |
| Life sciences.....     | 37,700           | 18,300  | 19,400 | 33,900         | 16,800  | 17,200 | 19,000                     | 10,400 | 8,600  |
| Biology.....           | 24,900           | 10,900  | 14,000 | 21,600         | 9,500   | 12,200 | 11,400                     | 5,100  | 6,300  |
| Agr science.....       | 12,800           | 7,400   | 5,400  | 12,300         | 7,300   | 5,000  | 7,700                      | 5,400  | 2,300  |
| Psychology.....        | 33,200           | 10,600  | 22,700 | 31,000         | 9,900   | 21,100 | 8,600                      | 3,300  | 5,300  |
| Social sciences.....   | 59,000           | 31,900  | 26,900 | 56,000         | 30,500  | 25,300 | 15,000                     | 9,400  | 5,600  |
| Economics.....         | 19,100           | 12,400  | 6,700  | 18,700         | 12,000  | 6,700  | 5,200                      | 4,200  | 1,000  |
| Socio/anthro.....      | 13,600           | 4,200   | 9,400  | 12,900         | 4,200   | 8,700  | 2,600                      | 1,100  | 1,500  |
| Other soc sciences...  | 26,300           | 15,300  | 10,700 | 24,400         | 14,300  | 9,900  | 7,200                      | 4,100  | 3,100  |
| Total engineering..... | 66,400           | 56,800  | 9,600  | 64,000         | 54,800  | 9,100  | 55,300                     | 47,100 | 8,100  |
| Aero/astro.....        | 3,000            | 2,600   | 300    | 2,900          | 2,600   | 300    | 2,200                      | 1,900  | 300    |
| Chemical.....          | 3,100            | 2,100   | 1,000  | 3,100          | 2,100   | 1,000  | 2,700                      | 1,800  | 900    |
| Civil.....             | 6,900            | 5,800   | 1,200  | 6,800          | 5,700   | 1,100  | 6,100                      | 5,200  | 900    |
| Elect/electron.....    | 24,800           | 22,200  | 2,700  | 23,700         | 21,300  | 2,500  | 20,700                     | 18,500 | 2,200  |
| Industrial.....        | 6,300            | 5,300   | 1,000  | 6,100          | 5,200   | 1,000  | 4,900                      | 4,100  | 800    |
| Materials.....         | 700              | 600     | 100    | 700            | 600     | 100    | 600                        | 500    | 100    |
| Mechanical.....        | 12,900           | 11,200  | 1,800  | 12,500         | 10,800  | 1,800  | 11,500                     | 9,800  | 1,600  |
| Mining.....            | 500              | 400     | 100    | 500            | 400     | 100    | 500                        | 400    | 100    |
| Nuclear.....           | 400              | 300     | 100    | 300            | 300     | 100    | 300                        | 200    | 100    |
| Petroleum.....         | 500              | 500     | 5      | 500            | 400     | 5      | 500                        | 400    | 5      |
| Other engineering..... | 7,200            | 5,900   | 1,300  | 6,900          | 5,700   | 1,300  | 5,200                      | 4,200  | 1,000  |

See explanatory information and SOURCE at end of table.

Table B-4. 1988 science and engineering (S&E) bachelor's-degree recipients, by field of degree, employment status, and sex: 1990

| Field of degree        | Unemployed |       |       | Outside labor force |       |       |
|------------------------|------------|-------|-------|---------------------|-------|-------|
|                        | Total      | Men   | Women | Total               | Men   | Women |
| Total, all fields..... | 7,700      | 4,800 | 2,900 | 6,400               | 2,300 | 4,200 |
| Total sciences.....    | 6,100      | 3,400 | 2,700 | 5,600               | 1,700 | 3,900 |
| Physical sciences..... | 500        | 400   | 100   | 200                 | 200   | S     |
| Chemistry.....         | 300        | 300   | S     | 100                 | 100   | S     |
| Physics/astronomy..... | 100        | 100   | S     | S                   | S     | S     |
| Other phys sciences... | 100        | S     | 100   | S                   | S     | S     |
| Math/statistics.....   | 200        | 100   | 100   | 400                 | 100   | 300   |
| Computer science.....  | 700        | 400   | 300   | 500                 | 200   | 300   |
| Environ science.....   | 200        | 100   | S     | S                   | S     | S     |
| Life sciences.....     | 2,000      | 1,000 | 1,000 | 1,800               | 600   | 1,200 |
| Biology.....           | 1,800      | 900   | 900   | 1,500               | 600   | 900   |
| Agr science.....       | 200        | 100   | 100   | 300                 | S     | 300   |
| Psychology.....        | 1,100      | 600   | 400   | 1,200               | S     | 1,200 |
| Social sciences.....   | 1,400      | 700   | 700   | 1,500               | 700   | 900   |
| Economics.....         | 400        | 300   | S     | S                   | S     | S     |
| Socio/anthro.....      | 300        | S     | 300   | 400                 | S     | 400   |
| Other soc sciences.... | 700        | 400   | 300   | 1,100               | 700   | 500   |
| Total engineering..... | 1,600      | 1,400 | 200   | 800                 | 600   | 300   |
| Aero/astro.....        | 100        | 100   | S     | S                   | S     | S     |
| Chemical.....          | 100        | S     | S     | S                   | S     | S     |
| Civil.....             | 100        | 100   | S     | 100                 | S     | 100   |
| Elect/electron.....    | 900        | 700   | 100   | 200                 | 100   | 100   |
| Industrial.....        | 100        | 100   | S     | 100                 | S     | 100   |
| Materials.....         | S          | S     | S     | S                   | S     | S     |
| Mechanical.....        | 300        | 300   | S     | 200                 | 200   | S     |
| Mining.....            | S          | S     | S     | S                   | S     | S     |
| Nuclear.....           | S          | S     | S     | S                   | S     | S     |
| Petroleum.....         | S          | S     | S     | S                   | S     | S     |
| Other engineering..... | 100        | 100   | S     | 100                 | 100   | S     |

KEY: S = Data suppressed for statistical reasons

NOTES: Because of rounding, components may not add to totals.  
Data exclude those on full-time graduate students.

SOURCE: National Science Foundation/SRS, 1990 New Entrants Survey

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Table B-5. 1988 science and engineering (S&E) bachelor's-degree recipients, by field of degree, employment status, and racial/ethnic group: 1990

| Field of degree        | Total population |         |        |        |                 |            |
|------------------------|------------------|---------|--------|--------|-----------------|------------|
|                        | Total            | White   | Black  | Asian  | Native American | Hispanic / |
| Total, all fields..... | 254,800          | 207,900 | 12,600 | 10,700 | 900             | 8,200      |
| Total sciences.....    | 188,400          | 153,500 | 10,000 | 6,700  | 500             | 5,600      |
| Physical sciences..... | 9,200            | 7,600   | 500    | 300    | S               | 300        |
| Chemistry.....         | 5,100            | 4,000   | 200    | 300    | S               | 200        |
| Physics/astronomy..... | 2,400            | 2,100   | S      | S      | S               | 100        |
| Other phys sciences... | 1,800            | 1,500   | 200    | S      | S               | S          |
| Math/statistics.....   | 13,800           | 11,400  | 800    | 500    | 100             | 400        |
| Computer science.....  | 32,800           | 25,300  | 1,900  | 2,300  | 100             | 1,100      |
| Environ science.....   | 2,700            | 2,500   | S      | S      | S               | 100        |
| Life sciences.....     | 37,700           | 30,800  | 1,800  | 700    | S               | 500        |
| Biology.....           | 24,900           | 20,000  | 1,200  | 500    | S               | 200        |
| Agr science.....       | 12,800           | 10,700  | 500    | 200    | S               | 300        |
| Psychology.....        | 33,200           | 26,600  | 1,700  | 400    | 200             | 1,200      |
| Social sciences.....   | 59,000           | 49,200  | 3,300  | 2,300  | S               | 2,100      |
| Economics.....         | 19,100           | 15,700  | 1,600  | 900    | S               | 500        |
| Socio/anthro.....      | 13,600           | 11,500  | 700    | 400    | S               | 200        |
| Other soc sciences...  | 26,300           | 22,000  | 1,000  | 1,000  | S               | 1,400      |
| Total engineering..... | 66,400           | 54,400  | 2,600  | 4,100  | 400             | 2,600      |
| Aero/astro.....        | 3,000            | 2,800   | S      | 100    | S               | 100        |
| Chemical.....          | 3,100            | 2,300   | 100    | 200    | S               | 100        |
| Civil.....             | 6,900            | 5,900   | 200    | 300    | 100             | 500        |
| Elect/electron.....    | 24,800           | 19,000  | 1,100  | 2,500  | 200             | 800        |
| Industrial.....        | 6,300            | 5,000   | 400    | 300    | S               | 500        |
| Materials.....         | 700              | 600     | S      | S      | S               | S          |
| Mechanical.....        | 12,900           | 11,200  | 500    | 600    | 100             | 300        |
| Mining.....            | 500              | 500     | S      | S      | S               | S          |
| Nuclear.....           | 400              | 300     | S      | S      | S               | S          |
| Petroleum.....         | 500              | 400     | S      | S      | S               | 100        |
| Other engineering..... | 7,200            | 6,400   | 200    | 100    | S               | 100        |

| Field of degree        | Total employed |         |        |       |                 |            |
|------------------------|----------------|---------|--------|-------|-----------------|------------|
|                        | Total          | White   | Black  | Asian | Native American | Hispanic / |
| Total, all fields..... | 240,800        | 197,800 | 11,400 | 9,700 | 900             | 7,900      |
| Total sciences.....    | 176,700        | 144,800 | 8,900  | 6,300 | 400             | 5,400      |
| Physical sciences..... | 8,600          | 7,400   | 500    | 300   | S               | 300        |
| Chemistry.....         | 4,700          | 3,900   | 200    | 200   | S               | 200        |
| Physics/astronomy..... | 2,200          | 2,100   | S      | S     | S               | 100        |
| Other phys sciences... | 1,700          | 1,400   | 200    | S     | S               | S          |
| Math/statistics.....   | 13,200         | 11,000  | 800    | 500   | 100             | 200        |
| Computer science.....  | 31,500         | 24,600  | 1,700  | 2,100 | 100             | 1,000      |
| Environ science.....   | 2,500          | 2,300   | S      | S     | S               | 100        |
| Life sciences.....     | 33,900         | 28,100  | 1,300  | 700   | S               | 400        |
| Biology.....           | 21,600         | 17,800  | 800    | 500   | S               | 200        |
| Agr science.....       | 12,300         | 10,300  | 500    | 200   | S               | 300        |
| Psychology.....        | 31,000         | 24,600  | 1,700  | 400   | 200             | 1,200      |
| Social sciences.....   | 56,000         | 46,800  | 2,900  | 2,100 | S               | 2,100      |
| Economics.....         | 18,700         | 15,500  | 1,500  | 900   | S               | 500        |
| Socio/anthro.....      | 12,900         | 11,000  | 600    | 200   | S               | 200        |
| Other soc sciences...  | 24,400         | 20,300  | 900    | 1,000 | S               | 1,400      |
| Total engineering..... | 64,000         | 53,000  | 2,500  | 3,400 | 400             | 2,600      |
| Aero/astro.....        | 2,900          | 2,700   | S      | 100   | S               | 100        |
| Chemical.....          | 3,100          | 2,300   | 100    | 200   | S               | 100        |
| Civil.....             | 6,800          | 5,700   | 200    | 200   | 100             | 500        |
| Elect/electron.....    | 23,700         | 18,500  | 1,100  | 2,100 | 200             | 800        |
| Industrial.....        | 6,100          | 4,900   | 400    | 200   | S               | 500        |
| Materials.....         | 700            | 600     | S      | S     | S               | S          |
| Mechanical.....        | 12,500         | 10,900  | 400    | 400   | 100             | 300        |
| Mining.....            | 500            | 500     | S      | S     | S               | S          |
| Nuclear.....           | 300            | 300     | S      | S     | S               | S          |
| Petroleum.....         | 500            | 400     | S      | S     | S               | 100        |
| Other engineering..... | 6,900          | 6,200   | 200    | 100   | S               | 100        |

See explanatory information and SOURCE at end of table.

Table B-5. 1988 science and engineering (S&E) bachelor's-degree recipients, by field of degree, employment status, and racial/ethnic group: 1990

| Field of degree        | Employed in S&E occupation |         |       |       |                 |             |
|------------------------|----------------------------|---------|-------|-------|-----------------|-------------|
|                        | Total                      | White   | Black | Asian | Native American | Hispanic 1/ |
| Total, all fields..... | 140,900                    | 114,700 | 6,100 | 7,000 | 800             | 5,600       |
| Total sciences.....    | 85,700                     | 69,100  | 4,100 | 3,900 | 400             | 3,400       |
| Physical sciences..... | 5,900                      | 5,200   | 200   | 200   | S               | 300         |
| Chemistry.....         | 3,400                      | 2,900   | 200   | 100   | S               | 200         |
| Physics/astronomy..... | 1,600                      | 1,500   | S     | S     | S               | 100         |
| Other phys sciences... | 800                        | 800     | S     | S     | S               | S           |
| Math/statistics.....   | 9,100                      | 7,600   | 300   | 400   | 100             | 200         |
| Computer science.....  | 26,300                     | 21,000  | 1,300 | 1,900 | 100             | 700         |
| Environ science.....   | 1,800                      | 1,700   | S     | S     | S               | 100         |
| Life sciences.....     | 19,000                     | 15,800  | 600   | 600   | S               | 400         |
| Biology.....           | 11,400                     | 9,300   | 400   | 500   | S               | 200         |
| Agr science.....       | 7,700                      | 6,500   | 300   | 100   | S               | 200         |
| Psychology.....        | 8,600                      | 6,100   | 500   | 200   | 200             | 800         |
| Social sciences.....   | 15,000                     | 11,800  | 1,200 | 500   | S               | 900         |
| Economics.....         | 5,200                      | 4,400   | 500   | S     | S               | S           |
| Socio/anthro.....      | 2,600                      | 2,100   | 400   | S     | S               | S           |
| Other soc sciences.... | 7,200                      | 5,300   | 200   | 500   | S               | 900         |
| Total engineering..... | 55,300                     | 45,500  | 2,000 | 3,100 | 400             | 2,200       |
| Aero/astro.....        | 2,200                      | 2,000   | S     | 100   | S               | 100         |
| Chemical.....          | 2,700                      | 2,000   | 100   | 200   | S               | 100         |
| Civil.....             | 6,100                      | 5,100   | 200   | 200   | 100             | 500         |
| Elect/electron.....    | 20,700                     | 15,900  | 900   | 2,000 | 200             | 700         |
| Industrial.....        | 4,900                      | 4,000   | 300   | 200   | S               | 400         |
| Materials.....         | 4,600                      | 600     | S     | S     | S               | S           |
| Mechanical.....        | 11,500                     | 10,100  | 300   | 300   | 100             | 300         |
| Mining.....            | 500                        | 500     | S     | S     | S               | S           |
| Nuclear.....           | 300                        | 300     | S     | S     | S               | S           |
| Petroleum.....         | 500                        | 400     | S     | S     | S               | 100         |
| Other engineering..... | 5,200                      | 4,700   | 100   | 100   | S               | 100         |

| Field of degree        | Unemployed |       |       |       |                 |             |
|------------------------|------------|-------|-------|-------|-----------------|-------------|
|                        | Total      | White | Black | Asian | Native American | Hispanic 1/ |
| Total, all fields..... | 7,700      | 5,000 | 1,000 | 600   | S               | 200         |
| Total sciences.....    | 6,100      | 4,200 | 900   | 100   | S               | 100         |
| Physical sciences..... | 500        | 200   | S     | S     | S               | S           |
| Chemistry.....         | 300        | 100   | S     | S     | S               | S           |
| Physics/astronomy..... | 100        | S     | S     | S     | S               | S           |
| Other phys sciences... | 100        | 100   | S     | S     | S               | S           |
| Math/statistics.....   | 200        | 200   | S     | S     | S               | S           |
| Computer science.....  | 700        | 400   | 100   | 100   | S               | 100         |
| Environ science.....   | 200        | 100   | S     | S     | S               | S           |
| Life sciences.....     | 2,000      | 1,200 | 300   | S     | S               | S           |
| Biology.....           | 1,800      | 1,100 | 300   | S     | S               | S           |
| Agr science.....       | 200        | 100   | S     | S     | S               | S           |
| Psychology.....        | 1,100      | 1,100 | S     | S     | S               | S           |
| Social sciences.....   | 1,400      | 1,000 | 400   | S     | S               | S           |
| Economics.....         | 400        | 200   | 200   | S     | S               | S           |
| Socio/anthro.....      | 300        | 200   | 100   | S     | S               | S           |
| Other soc sciences.... | 700        | 600   | 100   | S     | S               | S           |
| Total engineering..... | 1,600      | 800   | 100   | 500   | S               | 100         |
| Aero/astro.....        | 100        | 100   | S     | S     | S               | S           |
| Chemical.....          | 100        | S     | S     | S     | S               | S           |
| Civil.....             | 100        | 100   | S     | S     | S               | S           |
| Elect/electron.....    | 900        | 400   | 100   | 400   | S               | S           |
| Industrial.....        | 100        | 100   | S     | S     | S               | S           |
| Materials.....         | S          | S     | S     | S     | S               | S           |
| Mechanical.....        | 300        | 200   | S     | 100   | S               | S           |
| Mining.....            | S          | S     | S     | S     | S               | S           |
| Nuclear.....           | S          | S     | S     | S     | S               | S           |
| Petroleum.....         | S          | S     | S     | S     | S               | S           |
| Other engineering..... | 100        | S     | S     | S     | S               | S           |

See explanatory information and SOURCE at end of table.

Table B-5. 1988 science and engineering (S&E) bachelor's-degree recipients, by field of degree, employment status, and racial/ethnic group: 1990

| Field of degree        | Outside labor force |       |       |       |                 |             |
|------------------------|---------------------|-------|-------|-------|-----------------|-------------|
|                        | Total               | White | Black | Asian | Native American | Hispanic 1/ |
| Total, all fields..... | 6,400               | 5,100 | 200   | 500   | S               | 100         |
| Total sciences.....    | 5,600               | 4,500 | 200   | 300   | S               | 100         |
| Physical sciences..... | 200                 | 100   | S     | S     | S               | S           |
| Chemistry.....         | 100                 | 100   | S     | S     | S               | S           |
| Physics/astronomy..... | S                   | S     | S     | S     | S               | S           |
| Other phys sciences..  | S                   | S     | S     | S     | S               | S           |
| Math/statistics.....   | 400                 | 300   | S     | S     | S               | 100         |
| Computer science.....  | 500                 | 400   | 100   | 100   | S               | S           |
| Environ science.....   | S                   | S     | S     | S     | S               | S           |
| Life sciences.....     | 1,800               | 1,500 | 100   | S     | S               | S           |
| Biology.....           | 1,500               | 1,200 | 100   | S     | S               | S           |
| Agr science.....       | 300                 | 300   | S     | S     | S               | S           |
| Psychology.....        | 1,200               | 900   | S     | S     | S               | S           |
| Social sciences.....   | 1,500               | 1,300 | S     | 200   | S               | S           |
| Economics.....         | S                   | S     | S     | S     | S               | S           |
| Socio/anthro.....      | 400                 | 200   | S     | 200   | S               | S           |
| Other soc sciences...  | 1,100               | 1,100 | S     | S     | S               | S           |
| Total engineering..... | 800                 | 600   | S     | 200   | S               | S           |
| Aero/astro.....        | S                   | S     | S     | S     | S               | S           |
| Chemical.....          | S                   | S     | S     | S     | S               | S           |
| Civil.....             | 100                 | 100   | S     | S     | S               | S           |
| Elect/electron.....    | 200                 | 100   | S     | 100   | S               | S           |
| Industrial.....        | 100                 | 100   | S     | S     | S               | S           |
| Materials.....         | S                   | S     | S     | S     | S               | S           |
| Mechanical.....        | 200                 | 100   | S     | 100   | S               | S           |
| Mining.....            | S                   | S     | S     | S     | S               | S           |
| Nuclear.....           | S                   | S     | S     | S     | S               | S           |
| Petroleum.....         | S                   | S     | S     | S     | S               | S           |
| Other engineering..... | 100                 | 100   | S     | S     | S               | S           |

1/ Includes members of all racial groups

KEY: S = Data suppressed for statistical reasons

NOTES: Components will not add to totals because (a) racial and ethnic categories are not mutually exclusive, (b) total includes "other" and "no report," and (c) both components and totals have been rounded.  
Data exclude those on full-time graduate students.

SOURCE: National Science Foundation/SRS, 1990 New Entrants Survey

Table B-6. 1988 science and engineering bachelor's-degree recipients, by field of degree, sex, and type of employer: 1990

| Field of degree and sex  | Total employed | Type of employer      |          |               |                          |                   |        |                 |                    |                         |        |           |
|--------------------------|----------------|-----------------------|----------|---------------|--------------------------|-------------------|--------|-----------------|--------------------|-------------------------|--------|-----------|
|                          |                | Business and industry |          |               | Educational institutions |                   |        | Non-profit orgs | Federal Government | State/local governments | Other  | No report |
|                          |                | Total                 | Industry | Self-employed | Total                    | 4-yr college univ | Other  |                 |                    |                         |        |           |
| Total, all fields.....   | 240,500        | 157,200               | 150,800  | 6,400         | 22,900                   | 7,700             | 15,100 | 11,500          | 9,900              | 12,600                  | 25,400 | 1,100     |
| Men.....                 | 148,800        | 106,500               | 100,800  | 5,700         | 9,200                    | 3,200             | 6,000  | 4,100           | 5,500              | 7,800                   | 14,900 | 800       |
| Women.....               | 91,700         | 50,700                | 50,000   | 700           | 13,700                   | 4,500             | 9,200  | 7,300           | 4,400              | 4,900                   | 10,400 | 400       |
| Total sciences.....      | 176,500        | 107,500               | 102,000  | 5,500         | 22,100                   | 7,200             | 14,900 | 10,700          | 5,900              | 9,500                   | 20,000 | 900       |
| Men.....                 | 94,000         | 63,500                | 58,600   | 4,900         | 8,400                    | 2,700             | 5,700  | 3,500           | 2,400              | 5,300                   | 10,300 | 600       |
| Women.....               | 82,600         | 44,000                | 43,400   | 600           | 13,600                   | 4,500             | 9,200  | 7,100           | 3,500              | 4,200                   | 9,800  | 300       |
| Physical sciences.....   | 8,600          | 5,000                 | 5,000    | S             | 1,800                    | 500               | 1,300  | 300             | 300                | 300                     | 900    | 100       |
| Men.....                 | 6,100          | 3,500                 | 3,500    | S             | 1,300                    | 400               | 1,000  | 200             | 100                | 200                     | 700    | S         |
| Women.....               | 2,500          | 1,500                 | 1,500    | S             | 400                      | 100               | 300    | 100             | 100                | 100                     | 200    | S         |
| Chemistry.....           | 4,700          | 3,200                 | 3,100    | S             | 800                      | 300               | 500    | 100             | 100                | 300                     | 200    | 100       |
| Men.....                 | 2,800          | 1,900                 | 1,900    | S             | 500                      | 300               | 200    | 100             | 100                | 100                     | 100    | S         |
| Women.....               | 1,900          | 1,300                 | 1,300    | S             | 300                      | 100               | 300    | S               | S                  | 100                     | 100    | S         |
| Physics/astronomy.....   | 2,200          | 1,400                 | 1,300    | S             | 300                      | 200               | 100    | 100             | 100                | 100                     | 300    | S         |
| Men.....                 | 1,900          | 1,200                 | 1,200    | S             | 200                      | 100               | 100    | 100             | 100                | 100                     | 200    | S         |
| Women.....               | 400            | 200                   | 200      | S             | 100                      | 100               | S      | 100             | S                  | S                       | S      | S         |
| Other phys sciences..... | 1,700          | 500                   | 500      | S             | 700                      | S                 | 700    | S               | 100                | S                       | 400    | S         |
| Men.....                 | 1,400          | 400                   | 400      | S             | 600                      | S                 | 600    | S               | 100                | S                       | 400    | S         |
| Women.....               | 200            | 100                   | 100      | S             | S                        | S                 | S      | S               | 100                | S                       | S      | S         |
| Math/statistics.....     | 13,200         | 6,900                 | 6,800    | 100           | 4,100                    | 600               | 3,600  | 500             | 500                | 300                     | 800    | S         |
| Men.....                 | 6,800          | 4,000                 | 3,900    | 100           | 1,600                    | 500               | 1,200  | 200             | 200                | 100                     | 600    | S         |
| Women.....               | 6,500          | 2,900                 | 2,900    | S             | 2,500                    | 100               | 2,400  | 400             | 300                | 100                     | 300    | S         |
| Computer science.....    | 31,500         | 25,000                | 24,600   | 400           | 1,900                    | 1,100             | 900    | 500             | 600                | 1,000                   | 2,100  | 300       |
| Men.....                 | 22,100         | 17,800                | 17,500   | 300           | 800                      | 500               | 300    | 400             | 300                | 700                     | 1,700  | 300       |
| Women.....               | 9,400          | 7,200                 | 7,100    | S             | 1,100                    | 600               | 500    | 100             | 300                | 300                     | 400    | S         |
| Environ science.....     | 2,500          | 1,300                 | 1,300    | S             | 100                      | S                 | 100    | S               | 200                | 200                     | 600    | S         |
| Men.....                 | 1,900          | 1,000                 | 900      | S             | 100                      | S                 | 100    | S               | 200                | 100                     | 500    | S         |
| Women.....               | 600            | 400                   | 400      | S             | 100                      | S                 | 100    | S               | 100                | 100                     | 100    | S         |
| Life sciences.....       | 33,900         | 18,200                | 16,400   | 1,700         | 5,300                    | 1,500             | 3,800  | 1,700           | 1,200              | 1,700                   | 5,500  | 300       |
| Men.....                 | 16,800         | 9,900                 | 8,800    | 1,100         | 2,300                    | 800               | 1,600  | 900             | 500                | 500                     | 2,600  | S         |
| Women.....               | 17,200         | 8,200                 | 7,700    | 600           | 3,000                    | 800               | 2,200  | 900             | 700                | 1,200                   | 2,900  | 200       |
| Biology.....             | 21,600         | 10,100                | 9,700    | 300           | 4,500                    | 1,300             | 3,200  | 1,300           | 300                | 600                     | 4,700  | 200       |
| Men.....                 | 9,500          | 4,700                 | 4,400    | 300           | 2,000                    | 600               | 1,500  | 600             | S                  | S                       | 2,200  | S         |
| Women.....               | 12,200         | 5,400                 | 5,400    | S             | 2,500                    | 700               | 1,800  | 800             | 300                | 600                     | 2,500  | 200       |
| Agr science.....         | 12,300         | 6,100                 | 6,700    | 1,400         | 800                      | 200               | 500    | 400             | 900                | 1,100                   | 900    | 100       |
| Men.....                 | 7,300          | 5,200                 | 4,400    | 800           | 300                      | 200               | 100    | 300             | 500                | 500                     | 500    | S         |
| Women.....               | 5,000          | 2,900                 | 2,300    | 600           | 500                      | 100               | 400    | 100             | 400                | 600                     | 400    | S         |
| Psychology.....          | 31,000         | 15,600                | 14,700   | 800           | 3,300                    | 1,100             | 2,100  | 5,100           | 400                | 2,100                   | 4,500  | S         |
| Men.....                 | 9,900          | 5,900                 | 5,100    | 800           | 200                      | S                 | 200    | 1,000           | S                  | 1,300                   | 1,500  | S         |
| Women.....               | 21,100         | 9,600                 | 9,600    | S             | 3,100                    | 1,100             | 2,000  | 4,100           | 400                | 900                     | 3,000  | S         |
| Social sciences.....     | 55,800         | 35,600                | 33,200   | 2,400         | 5,500                    | 2,300             | 3,200  | 2,500           | 2,500              | 3,800                   | 5,600  | 300       |
| Men.....                 | 30,500         | 21,300                | 18,900   | 2,400         | 3,100                    | 700               | 1,500  | 900             | 1,000              | 2,400                   | 2,600  | 200       |
| Women.....               | 25,300         | 14,300                | 14,300   | S             | 3,400                    | 1,700             | 1,700  | 1,600           | 1,600              | 1,400                   | 3,000  | 100       |
| Economics.....           | 18,700         | 15,900                | 15,000   | 900           | 700                      | 600               | S      | 200             | 300                | 400                     | 1,100  | 300       |
| Men.....                 | 12,000         | 9,900                 | 9,000    | 900           | 500                      | 500               | S      | 200             | 300                | 400                     | 700    | 200       |
| Women.....               | 6,700          | 6,000                 | 6,000    | S             | 200                      | 200               | S      | S               | S                  | S                       | 400    | 100       |
| Socio/anthro.....        | 12,900         | 5,900                 | 5,400    | 400           | 1,700                    | 900               | 900    | 1,300           | 400                | 1,900                   | 1,700  | S         |
| Men.....                 | 4,200          | 2,100                 | 1,700    | 400           | 400                      | S                 | 400    | 500             | S                  | 800                     | 400    | S         |
| Women.....               | 8,700          | 3,700                 | 3,700    | S             | 1,300                    | 900               | 400    | 900             | 400                | 1,100                   | 1,200  | S         |
| Other soc sciences.....  | 24,200         | 13,800                | 12,700   | 1,100         | 3,100                    | 800               | 2,300  | 1,000           | 1,800              | 1,500                   | 2,900  | S         |
| Men.....                 | 14,300         | 9,300                 | 8,200    | 1,100         | 1,200                    | 200               | 1,000  | 200             | 700                | 1,300                   | 1,500  | S         |
| Women.....               | 9,900          | 4,500                 | 4,500    | S             | 1,900                    | 600               | 1,300  | 700             | 1,100              | 300                     | 1,400  | S         |

See explanatory information and SOURCE at end of table.

Table B-6. 1988 science and engineering bachelor's-degree recipients, by field of degree, sex, and type of employer: 1990

| Field of degree and sex | Total employed | Type of employer      |          |               |                          |                   |       |                 |                    |                         |       |           |
|-------------------------|----------------|-----------------------|----------|---------------|--------------------------|-------------------|-------|-----------------|--------------------|-------------------------|-------|-----------|
|                         |                | Business and industry |          |               | Educational institutions |                   |       | Non-profit orgs | Federal Government | State/local governments | Other | No report |
|                         |                | Total                 | Industry | Self-employed | Total                    | 4-yr college univ | Other |                 |                    |                         |       |           |
| Total engineering.....  | 64,000         | 49,700                | 48,800   | 900           | 800                      | 500               | 200   | 800             | 4,000              | 3,200                   | 5,300 | 200       |
| Men.....                | 54,800         | 43,000                | 42,200   | 800           | 800                      | 500               | 200   | 600             | 3,200              | 2,500                   | 4,600 | 200       |
| Women.....              | 9,100          | 6,700                 | 6,600    | 100           | S                        | S                 | S     | 200             | 800                | 700                     | 700   | S         |
| Aero/astro.....         | 2,900          | 1,600                 | 1,500    | S             | S                        | S                 | S     | S               | 200                | S                       | 900   | S         |
| Men.....                | 2,600          | 1,400                 | 1,400    | S             | S                        | S                 | S     | S               | 300                | S                       | 800   | S         |
| Women.....              | 300            | 100                   | 100      | S             | S                        | S                 | S     | 100             | 100                | S                       | 100   | S         |
| Chemical.....           | 3,000          | 2,600                 | 2,600    | S             | 100                      | S                 | S     | S               | 200                | 100                     | 100   | S         |
| Men.....                | 2,100          | 1,700                 | 1,700    | S             | 100                      | S                 | S     | S               | 100                | 100                     | 100   | S         |
| Women.....              | 1,000          | 800                   | 800      | S             | S                        | S                 | S     | 100             | 100                | S                       | S     | S         |
| Civil.....              | 6,800          | 4,200                 | 4,000    | 100           | 100                      | 100               | S     | 100             | 300                | 1,600                   | 500   | S         |
| Men.....                | 5,700          | 3,500                 | 3,400    | 100           | 100                      | 100               | S     | 100             | 200                | 1,300                   | 400   | S         |
| Women.....              | 1,100          | 700                   | 700      | S             | S                        | S                 | S     | S               | 100                | 300                     | 100   | S         |
| Elect/electron.....     | 23,700         | 18,900                | 18,400   | 400           | 200                      | 200               | S     | 500             | 1,900              | 700                     | 1,400 | 200       |
| Men.....                | 21,300         | 17,000                | 16,700   | 400           | 200                      | 200               | S     | 300             | 1,700              | 600                     | 1,300 | 200       |
| Women.....              | 2,500          | 1,900                 | 1,800    | 100           | S                        | S                 | S     | 200             | 200                | 100                     | 100   | S         |
| Industrial.....         | 6,100          | 5,200                 | 5,000    | 200           | 100                      | 100               | S     | S               | 300                | S                       | 500   | S         |
| Men.....                | 5,200          | 4,400                 | 4,200    | 200           | 100                      | 100               | S     | S               | 200                | S                       | 400   | S         |
| Women.....              | 1,000          | 800                   | 800      | S             | S                        | S                 | S     | 100             | 100                | S                       | 100   | S         |
| Materials.....          | 700            | 600                   | 600      | S             | S                        | S                 | S     | S               | S                  | S                       | 100   | S         |
| Men.....                | 600            | 500                   | 500      | S             | S                        | S                 | S     | S               | S                  | S                       | S     | S         |
| Women.....              | 100            | 100                   | 100      | S             | S                        | S                 | S     | S               | S                  | S                       | S     | S         |
| Mechanical.....         | 12,500         | 10,700                | 10,700   | 100           | 100                      | S                 | 100   | 100             | 700                | 300                     | 500   | S         |
| Men.....                | 10,800         | 9,400                 | 9,300    | 100           | 100                      | S                 | 100   | 100             | 400                | 200                     | 400   | S         |
| Women.....              | 1,800          | 1,300                 | 1,300    | S             | S                        | S                 | S     | S               | 200                | 100                     | S     | S         |
| Mining.....             | 500            | 500                   | 500      | S             | S                        | S                 | S     | S               | S                  | S                       | S     | S         |
| Men.....                | 400            | 400                   | 400      | S             | S                        | S                 | S     | S               | S                  | S                       | S     | S         |
| Women.....              | 100            | 100                   | 100      | S             | S                        | S                 | S     | S               | S                  | S                       | S     | S         |
| Nuclear.....            | 300            | 100                   | 100      | S             | S                        | S                 | S     | S               | S                  | S                       | 100   | S         |
| Men.....                | 300            | 100                   | 100      | S             | S                        | S                 | S     | S               | S                  | S                       | 100   | S         |
| Women.....              | 100            | S                     | S        | S             | S                        | S                 | S     | S               | S                  | S                       | S     | S         |
| Petroleum.....          | 500            | 400                   | 400      | S             | S                        | S                 | S     | S               | S                  | S                       | S     | S         |
| Men.....                | 400            | 400                   | 400      | S             | S                        | S                 | S     | S               | S                  | S                       | S     | S         |
| Women.....              | S              | S                     | S        | S             | S                        | S                 | S     | S               | S                  | S                       | S     | S         |
| Other engineering.....  | 6,900          | 4,900                 | 4,900    | 100           | 100                      | 100               | 100   | S               | 200                | 300                     | 1,300 | S         |
| Men.....                | 5,700          | 4,100                 | 4,000    | S             | 100                      | 100               | 100   | S               | 100                | 300                     | 1,000 | S         |
| Women.....              | 1,300          | 900                   | 900      | S             | S                        | S                 | S     | S               | 100                | S                       | 300   | S         |

KEY: S = Data suppressed for statistical reasons

NOTES: Because of rounding, components may not add to totals. Data exclude those on full-time graduate students.

SOURCE: National Science Foundation/SRS, 1990 New Entrants Survey

Table B-7. 1988 science and engineering bachelor's-degree recipients, by field of degree, sex, and primary work activity: 1990

| Field of degree and sex | Total employed | Primary work activity    |       |         |                           |        |        |            |
|-------------------------|----------------|--------------------------|-------|---------|---------------------------|--------|--------|------------|
|                         |                | Research and development |       |         | Management/administration |        |        |            |
|                         |                | Total                    | Basic | Applied | Development               | Total  | Of R&D | Of non-R&D |
| Total, all fields.....  | 240,500        | 41,700                   | 4,200 | 7,300   | 30,300                    | 37,700 | 5,600  | 32,100     |
| Men.....                | 148,800        | 29,900                   | 1,600 | 4,300   | 24,100                    | 22,000 | 3,800  | 18,200     |
| Women.....              | 91,700         | 11,800                   | 2,600 | 3,000   | 6,200                     | 15,700 | 1,800  | 14,000     |
| Total sciences.....     | 176,500        | 20,900                   | 3,800 | 5,500   | 11,600                    | 29,800 | 3,900  | 25,800     |
| Men.....                | 94,000         | 11,900                   | 1,300 | 2,800   | 7,900                     | 15,000 | 2,500  | 12,500     |
| Women.....              | 82,600         | 9,000                    | 2,500 | 2,800   | 3,700                     | 14,800 | 1,400  | 13,400     |
| Physical sciences.....  | 8,600          | 2,400                    | 300   | 800     | 1,200                     | 900    | 100    | 800        |
| Men.....                | 6,100          | 1,800                    | 200   | 700     | 900                       | 700    | 100    | 600        |
| Women.....              | 2,500          | 600                      | 100   | 200     | 400                       | 200    | S      | 200        |
| Chemistry.....          | 4,700          | 1,500                    | 200   | 400     | 900                       | 600    | 100    | 500        |
| Men.....                | 2,800          | 1,100                    | 200   | 300     | 600                       | 400    | 100    | 300        |
| Women.....              | 1,900          | 500                      | S     | 100     | 300                       | 200    | S      | 200        |
| Physics/astronomy.....  | 2,200          | 800                      | 100   | 400     | 300                       | 100    | S      | 100        |
| Men.....                | 1,900          | 700                      | S     | 400     | 300                       | 100    | S      | 100        |
| Women.....              | 400            | 200                      | 100   | S       | 100                       | S      | S      | S          |
| Other phys sciences...  | 1,700          | S                        | S     | S       | S                         | 300    | S      | 300        |
| Men.....                | 1,400          | S                        | S     | S       | S                         | 200    | S      | 200        |
| Women.....              | 200            | S                        | S     | S       | S                         | S      | S      | S          |
| Math/statistics.....    | 13,200         | 1,000                    | 100   | 200     | 700                       | 1,300  | 200    | 1,100      |
| Men.....                | 6,800          | 600                      | 100   | 100     | 500                       | 800    | 200    | 600        |
| Women.....              | 6,500          | 400                      | S     | 100     | 300                       | 600    | 100    | 500        |
| Computer science.....   | 31,500         | 6,800                    | S     | 400     | 6,400                     | 2,700  | 400    | 2,300      |
| Men.....                | 22,100         | 5,100                    | S     | 300     | 4,700                     | 2,100  | 300    | 1,800      |
| Women.....              | 9,400          | 1,700                    | S     | 100     | 1,600                     | 600    | 100    | 600        |
| Environ science.....    | 2,500          | 300                      | S     | 200     | S                         | 300    | S      | 300        |
| Men.....                | 1,900          | 200                      | S     | 200     | S                         | 200    | S      | 200        |
| Women.....              | 600            | S                        | S     | S       | S                         | 100    | S      | 100        |
| Life sciences.....      | 33,900         | 6,800                    | 2,500 | 2,900   | 1,400                     | 5,200  | 1,000  | 4,200      |
| Men.....                | 16,800         | 2,700                    | 700   | 1,200   | 800                       | 1,900  | 500    | 1,400      |
| Women.....              | 17,200         | 4,100                    | 1,800 | 1,700   | 600                       | 3,300  | 500    | 2,800      |
| Biology.....            | 21,600         | 5,100                    | 2,400 | 2,200   | 500                       | 2,400  | 200    | 2,200      |
| Men.....                | 9,500          | 1,500                    | 700   | 800     | S                         | 500    | S      | 500        |
| Women.....              | 12,200         | 3,600                    | 1,700 | 1,400   | 500                       | 1,900  | 200    | 1,700      |
| Agr science.....        | 12,300         | 1,700                    | 100   | 700     | 800                       | 2,800  | 700    | 2,100      |
| Men.....                | 7,300          | 1,200                    | 100   | 400     | 700                       | 1,400  | 500    | 900        |
| Women.....              | 5,000          | 500                      | 100   | 300     | 100                       | 1,400  | 200    | 1,100      |
| Psychology.....         | 31,000         | 1,100                    | 600   | 200     | 200                       | 6,400  | 500    | 6,000      |
| Men.....                | 9,900          | 400                      | 200   | S       | 200                       | 1,900  | 200    | 1,700      |
| Women.....              | 21,100         | 700                      | 400   | 200     | S                         | 4,500  | 200    | 4,300      |
| Social sciences.....    | 55,800         | 2,600                    | 200   | 700     | 1,600                     | 12,900 | 1,800  | 11,100     |
| Men.....                | 30,500         | 1,100                    | S     | 300     | 800                       | 7,400  | 1,200  | 6,200      |
| Women.....              | 25,300         | 1,500                    | 200   | 500     | 800                       | 5,500  | 600    | 4,900      |
| Economics.....          | 18,700         | 300                      | S     | S       | 300                       | 5,500  | 800    | 4,800      |
| Men.....                | 12,000         | 300                      | S     | S       | 300                       | 3,000  | 600    | 2,400      |
| Women.....              | 6,700          | S                        | S     | S       | S                         | 2,500  | 200    | 2,300      |
| Socio/anthro.....       | 12,900         | 700                      | S     | 500     | 200                       | 2,000  | 200    | 1,700      |
| Men.....                | 4,200          | 300                      | S     | 300     | S                         | 500    | S      | 500        |
| Women.....              | 8,700          | 400                      | S     | 200     | 200                       | 1,500  | 200    | 1,300      |
| Other soc sciences...   | 24,200         | 1,500                    | 200   | 200     | 1,000                     | 5,500  | 900    | 4,600      |
| Men.....                | 14,300         | 400                      | S     | S       | 400                       | 3,900  | 600    | 3,300      |
| Women.....              | 9,900          | 1,100                    | 200   | 200     | 600                       | 1,500  | 200    | 1,300      |

See explanatory information and SOURCE at end of table.

Table B-7. 1988 science and engineering bachelor's-degree recipients, by field of degree, sex, and primary work activity: 1990

| Field of degree and sex | Primary work activity |                       |                               |        |                       |        |           |
|-------------------------|-----------------------|-----------------------|-------------------------------|--------|-----------------------|--------|-----------|
|                         | Teaching              | Production/inspection | Reporting/stat work/computing | Sales  | Professional services | Other  | No report |
| Total, all fields.....  | 22,500                | 36,300                | 38,100                        | 21,100 | 4,300                 | 36,200 | 2,500     |
| Men.....                | 9,000                 | 28,600                | 22,500                        | 12,400 | 1,800                 | 21,200 | 1,500     |
| Women.....              | 13,600                | 7,700                 | 15,600                        | 8,700  | 2,500                 | 15,100 | 1,000     |
| Total sciences.....     | 21,500                | 19,500                | 32,300                        | 18,700 | 4,200                 | 27,700 | 2,000     |
| Men.....                | 8,100                 | 13,700                | 17,800                        | 10,500 | 1,700                 | 14,300 | 1,000     |
| Women.....              | 13,400                | 5,800                 | 14,500                        | 8,300  | 2,500                 | 13,400 | 1,000     |
| Physical sciences.....  | 1,300                 | 1,700                 | 600                           | 300    | 100                   | 1,200  | 100       |
| Men.....                | 900                   | 1,200                 | 400                           | 300    | S                     | 800    | S         |
| Women.....              | 400                   | 600                   | 200                           | S      | 100                   | 400    | S         |
| Chemistry.....          | 400                   | 1,100                 | 300                           | 100    | 100                   | 500    | 100       |
| Men.....                | 100                   | 600                   | 200                           | 100    | S                     | 200    | S         |
| Women.....              | 300                   | 500                   | 100                           | S      | 100                   | 300    | S         |
| Physics/astronomy.....  | 200                   | 500                   | 200                           | 100    | S                     | 300    | S         |
| Men.....                | 200                   | 500                   | 100                           | 100    | S                     | 200    | S         |
| Women.....              | S                     | S                     | 100                           | S      | S                     | 100    | S         |
| Other phys sciences...  | 700                   | 100                   | S                             | S      | S                     | 400    | S         |
| Men.....                | 600                   | 100                   | S                             | S      | S                     | 400    | S         |
| Women.....              | 100                   | S                     | S                             | S      | S                     | S      | S         |
| Math/statistics.....    | 3,900                 | 1,100                 | 3,200                         | 900    | S                     | 1,700  | S         |
| Men.....                | 1,400                 | 700                   | 1,600                         | 700    | S                     | 800    | S         |
| Women.....              | 2,500                 | 400                   | 1,600                         | 100    | S                     | 800    | S         |
| Computer science.....   | 700                   | 2,800                 | 13,800                        | 600    | 100                   | 3,700  | 300       |
| Men.....                | 200                   | 2,100                 | 8,900                         | 400    | 100                   | 2,900  | 300       |
| Women.....              | 500                   | 700                   | 4,900                         | 200    | S                     | 800    | S         |
| Environ science.....    | 100                   | 600                   | 200                           | 100    | S                     | 900    | S         |
| Men.....                | 100                   | 500                   | 200                           | 100    | S                     | 600    | S         |
| Women.....              | S                     | 100                   | S                             | S      | S                     | 300    | S         |
| Life sciences.....      | 3,900                 | 6,000                 | 2,200                         | 3,300  | 1,100                 | 4,900  | 700       |
| Men.....                | 1,700                 | 3,400                 | 1,100                         | 2,400  | 500                   | 2,700  | 500       |
| Women.....              | 2,200                 | 2,600                 | 1,100                         | 800    | 600                   | 2,200  | 200       |
| Biology.....            | 3,100                 | 3,300                 | 1,400                         | 2,300  | 700                   | 2,700  | 600       |
| Men.....                | 1,500                 | 1,500                 | 500                           | 1,500  | 400                   | 1,600  | 400       |
| Women.....              | 1,500                 | 1,900                 | 900                           | 700    | 300                   | 1,100  | 200       |
| Agr science.....        | 800                   | 2,700                 | 700                           | 1,000  | 400                   | 2,200  | 100       |
| Men.....                | 200                   | 1,900                 | 600                           | 900    | 100                   | 1,100  | S         |
| Women.....              | 600                   | 700                   | 200                           | 100    | 300                   | 1,200  | S         |
| Psychology.....         | 5,100                 | 2,600                 | 3,700                         | 3,400  | 2,100                 | 6,000  | 400       |
| Men.....                | 1,000                 | 2,300                 | 700                           | 1,300  | 300                   | 1,500  | S         |
| Women.....              | 4,100                 | 300                   | 3,000                         | 2,200  | 1,300                 | 4,500  | 400       |
| Social sciences.....    | 6,600                 | 4,600                 | 8,500                         | 10,200 | 700                   | 9,300  | 500       |
| Men.....                | 2,800                 | 3,600                 | 5,000                         | 5,300  | 200                   | 4,900  | 200       |
| Women.....              | 3,800                 | 1,000                 | 3,500                         | 4,900  | 400                   | 4,300  | 300       |
| Economics.....          | 700                   | 900                   | 4,200                         | 4,200  | S                     | 2,500  | 300       |
| Men.....                | 700                   | 400                   | 2,700                         | 2,900  | S                     | 1,900  | 200       |
| Women.....              | S                     | 500                   | 1,500                         | 1,300  | S                     | 700    | 100       |
| Socio/anthro.....       | 2,300                 | 1,100                 | 1,300                         | 1,600  | 400                   | 3,300  | 200       |
| Men.....                | 700                   | 900                   | 600                           | 700    | 200                   | 400    | S         |
| Women.....              | 1,600                 | 200                   | 700                           | 900    | 200                   | 2,800  | 200       |
| Other soc sciences....  | 3,600                 | 2,600                 | 3,000                         | 4,300  | 300                   | 3,500  | S         |
| Men.....                | 1,400                 | 2,300                 | 1,700                         | 1,800  | S                     | 2,600  | S         |
| Women.....              | 2,100                 | 300                   | 1,300                         | 2,600  | 200                   | 800    | S         |

See explanatory information and SOURCE at end of table.

Table B-7. 1988 science and engineering bachelor's-degree recipients, by field of degree, sex, and primary work activity: 1990

| Field of degree and sex | Total employed | Primary work activity    |       |         |                           |       |        |            |
|-------------------------|----------------|--------------------------|-------|---------|---------------------------|-------|--------|------------|
|                         |                | Research and development |       |         | Management/administration |       |        |            |
|                         |                | Total                    | Basic | Applied | Development               | Total | Of R&D | Of non-R&D |
| Total engineering.....  | 64,000         | 20,800                   | 400   | 1,700   | 18,700                    | 8,000 | 1,700  | 6,300      |
| Men.....                | 54,800         | 18,000                   | 300   | 1,500   | 16,200                    | 7,000 | 1,300  | 5,700      |
| Women.....              | 9,100          | 2,800                    | 100   | 200     | 2,500                     | 900   | 300    | 600        |
| Aero/astro.....         | 2,900          | 1,000                    | 100   | 100     | 800                       | 200   | 100    | 100        |
| Men.....                | 2,600          | 800                      | 100   | 100     | 700                       | 100   | 50     | 100        |
| Women.....              | 300            | 100                      | 5     | 5       | 100                       | 100   | 100    | 5          |
| Chemical.....           | 3,000          | 1,300                    | 100   | 200     | 1,000                     | 200   | 100    | 100        |
| Men.....                | 2,100          | 900                      | 5     | 200     | 700                       | 200   | 100    | 100        |
| Women.....              | 1,000          | 400                      | 5     | 100     | 300                       | 5     | 5      | 5          |
| Civil.....              | 6,800          | 1,200                    | 5     | 100     | 1,100                     | 1,200 | 100    | 1,100      |
| Men.....                | 5,700          | 1,100                    | 5     | 100     | 1,000                     | 900   | 100    | 900        |
| Women.....              | 1,100          | 200                      | 5     | 5       | 200                       | 200   | 5      | 200        |
| Elect/electron.....     | 23,700         | 9,400                    | 100   | 100     | 8,600                     | 2,600 | 900    | 1,700      |
| Men.....                | 21,300         | 8,800                    | 100   | 700     | 8,000                     | 2,300 | 700    | 1,600      |
| Women.....              | 2,500          | 600                      | 5     | 5       | 600                       | 300   | 200    | 100        |
| Industrial.....         | 6,100          | 1,000                    | 5     | 100     | 800                       | 1,200 | 200    | 1,000      |
| Men.....                | 5,200          | 900                      | 5     | 100     | 700                       | 1,100 | 200    | 900        |
| Women.....              | 1,000          | 100                      | 5     | 5       | 100                       | 200   | 5      | 100        |
| Materials.....          | 700            | 300                      | 5     | 5       | 200                       | 5     | 5      | 5          |
| Men.....                | 600            | 200                      | 5     | 5       | 200                       | 5     | 5      | 5          |
| Women.....              | 100            | 100                      | 5     | 5       | 5                         | 5     | 5      | 5          |
| Mechanical.....         | 12,500         | 5,100                    | 100   | 300     | 4,800                     | 800   | 5      | 800        |
| Men.....                | 10,800         | 4,200                    | 100   | 300     | 3,800                     | 700   | 5      | 700        |
| Women.....              | 1,800          | 1,000                    | 5     | 5       | 1,000                     | 100   | 5      | 100        |
| Mining.....             | 500            | 5                        | 5     | 5       | 5                         | 100   | 5      | 100        |
| Men.....                | 400            | 5                        | 5     | 5       | 5                         | 100   | 5      | 100        |
| Women.....              | 100            | 5                        | 5     | 5       | 5                         | 5     | 5      | 5          |
| Nuclear.....            | 300            | 100                      | 5     | 100     | 5                         | 100   | 5      | 100        |
| Men.....                | 300            | 5                        | 5     | 5       | 5                         | 100   | 5      | 100        |
| Women.....              | 100            | 100                      | 5     | 5       | 5                         | 5     | 5      | 5          |
| Petroleum.....          | 500            | 100                      | 5     | 5       | 100                       | 5     | 5      | 5          |
| Men.....                | 400            | 100                      | 5     | 5       | 5                         | 5     | 5      | 5          |
| Women.....              | 5              | 5                        | 5     | 5       | 5                         | 5     | 5      | 5          |
| Other engineering.....  | 6,900          | 1,400                    | 100   | 100     | 1,300                     | 1,500 | 300    | 1,200      |
| Men.....                | 5,700          | 1,200                    | 100   | 5       | 1,100                     | 1,500 | 300    | 1,200      |
| Women.....              | 1,300          | 300                      | 5     | 100     | 200                       | 100   | 5      | 5          |

See explanatory information and SOURCE at end of table.



Table B-7. 1988 science and engineering bachelor's-degree recipients, by field of degree, sex, and primary work activity: 1990

| Field of degree and sex | Primary work activity |                       |                               |       |                       |       |           |
|-------------------------|-----------------------|-----------------------|-------------------------------|-------|-----------------------|-------|-----------|
|                         | Teaching              | Production/inspection | Reporting/stat work/computing | Sales | Professional services | Other | No report |
| Total engineering.....  | 1,000                 | 16,800                | 5,800                         | 2,400 | 100                   | 8,500 | 500       |
| Men.....                | 800                   | 14,900                | 4,700                         | 1,900 | 100                   | 6,900 | 500       |
| Women.....              | 200                   | 1,900                 | 1,100                         | 500   | S                     | 1,700 | S         |
| Aero/astro.....         | 100                   | 800                   | 100                           | S     | S                     | 700   | S         |
| Men.....                | 100                   | 700                   | 100                           | S     | S                     | 600   | S         |
| Women.....              | S                     | 100                   | S                             | S     | S                     | S     | S         |
| Chemical.....           | S                     | 800                   | 300                           | S     | S                     | 300   | S         |
| Men.....                | S                     | 500                   | 200                           | S     | S                     | 200   | S         |
| Women.....              | S                     | 300                   | 100                           | S     | S                     | 100   | S         |
| Civil.....              | 100                   | 1,600                 | 400                           | 100   | S                     | 1,800 | 300       |
| Men.....                | 100                   | 1,400                 | 400                           | 100   | S                     | 1,400 | 300       |
| Women.....              | S                     | 200                   | 100                           | S     | S                     | 400   | S         |
| Elect/electron.....     | 100                   | 6,000                 | 2,800                         | 700   | S                     | 1,900 | 200       |
| Men.....                | S                     | 5,400                 | 2,200                         | 600   | S                     | 1,700 | 200       |
| Women.....              | 100                   | 600                   | 500                           | 100   | S                     | 200   | S         |
| Industrial.....         | S                     | 2,200                 | 600                           | 300   | 100                   | 700   | S         |
| Men.....                | S                     | 2,000                 | 500                           | 200   | 100                   | 500   | S         |
| Women.....              | S                     | 200                   | 100                           | 100   | S                     | 200   | S         |
| Materials.....          | S                     | 300                   | S                             | S     | S                     | 100   | S         |
| Men.....                | S                     | 200                   | S                             | S     | S                     | 100   | S         |
| Women.....              | S                     | S                     | S                             | S     | S                     | S     | S         |
| Mechanical.....         | 300                   | 3,000                 | 800                           | 700   | S                     | 1,800 | S         |
| Men.....                | 300                   | 2,600                 | 700                           | 700   | S                     | 1,600 | S         |
| Women.....              | S                     | 400                   | 100                           | S     | S                     | 200   | S         |
| Mining.....             | S                     | 100                   | 100                           | S     | S                     | 100   | S         |
| Men.....                | S                     | 100                   | 100                           | S     | S                     | 100   | S         |
| Women.....              | S                     | S                     | S                             | S     | S                     | S     | S         |
| Nuclear.....            | S                     | 100                   | S                             | S     | S                     | S     | S         |
| Men.....                | S                     | 100                   | S                             | S     | S                     | S     | S         |
| Women.....              | S                     | S                     | S                             | S     | S                     | S     | S         |
| Petroleum.....          | S                     | 300                   | S                             | S     | S                     | S     | S         |
| Men.....                | S                     | 300                   | S                             | S     | S                     | S     | S         |
| Women.....              | S                     | S                     | S                             | S     | S                     | S     | S         |
| Other engineering.....  | 300                   | 1,600                 | 500                           | 400   | S                     | 1,200 | S         |
| Men.....                | 300                   | 1,500                 | 400                           | 200   | S                     | 700   | S         |
| Women.....              | S                     | 200                   | 100                           | 200   | S                     | 500   | S         |

KEY: S = Data suppressed for statistical reasons

NOTES: Because of rounding, components may not add to totals.  
Data exclude those on full-time graduate students.

SOURCE: National Science Foundation/SRS, 1990 New Entrants Survey

Table B-8. 1988 science and engineering bachelor's-degree recipients, by field of degree, type of employer, and primary work activity: 1990

| Field of degree and type of employer | Total employed | Primary work activity    |       |         |             |                           |        |            |
|--------------------------------------|----------------|--------------------------|-------|---------|-------------|---------------------------|--------|------------|
|                                      |                | Research and development |       |         |             | Management/administration |        |            |
|                                      |                | Total                    | Basic | Applied | Development | Total                     | Of R&D | Of non-R&D |
| Total, all fields.....               | 240,800        | 41,700                   | 4,200 | 7,300   | 30,300      | 37,700                    | 5,600  | 32,100     |
| Business and Industry.....           | 157,400        | 30,500                   | 1,400 | 3,400   | 25,700      | 26,400                    | 3,400  | 23,000     |
| Industry.....                        | 151,100        | 30,400                   | 1,400 | 3,400   | 25,600      | 24,300                    | 3,100  | 21,200     |
| Self employed.....                   | 6,400          | 100                      | \$    | \$      | 100         | 2,000                     | 200    | 1,800      |
| Educ inst, total.....                | 22,900         | 3,100                    | 1,400 | 1,200   | 500         | 1,400                     | \$     | 1,400      |
| 4-yr college/univ.....               | 7,700          | 1,900                    | 600   | 700     | 500         | 900                       | \$     | 900        |
| Other.....                           | 15,100         | 1,200                    | 800   | 500     | \$          | 500                       | \$     | 500        |
| Nonprofit orgs.....                  | 11,500         | 800                      | 400   | 100     | 300         | 2,600                     | 900    | 1,600      |
| Federal Government.....              | 9,900          | 2,500                    | 100   | 600     | 1,900       | 1,500                     | 300    | 1,200      |
| State/local govt.....                | 12,600         | 2,000                    | 400   | 600     | 1,000       | 1,500                     | 400    | 1,200      |
| Other.....                           | 25,400         | 2,700                    | 500   | 1,400   | 800         | 4,400                     | 600    | 3,800      |
| No report.....                       | 1,100          | 100                      | \$    | \$      | 100         | \$                        | \$     | \$         |
| Total sciences.....                  | 176,700        | 20,900                   | 3,800 | 5,500   | 11,600      | 29,800                    | 3,900  | 25,800     |
| Business and Industry.....           | 107,700        | 13,000                   | 1,100 | 2,300   | 9,600       | 21,100                    | 2,300  | 18,800     |
| Industry.....                        | 102,300        | 13,000                   | 1,100 | 2,300   | 9,600       | 19,300                    | 2,100  | 17,200     |
| Self employed.....                   | 5,500          | 100                      | \$    | \$      | 100         | 1,800                     | 200    | 1,600      |
| Educ inst, total.....                | 22,100         | 2,900                    | 1,400 | 1,100   | 300         | 1,400                     | \$     | 1,400      |
| 4-yr college/univ.....               | 7,200          | 1,700                    | 600   | 700     | 300         | 900                       | \$     | 900        |
| Other.....                           | 14,900         | 1,200                    | 800   | 400     | 200         | 500                       | \$     | 500        |
| Nonprofit orgs.....                  | 10,700         | 700                      | 400   | 100     | 200         | 2,500                     | 900    | 1,500      |
| Federal Government.....              | 5,900          | 1,100                    | \$    | 200     | 900         | 1,000                     | 200    | 900        |
| State/local govt.....                | 9,500          | 1,200                    | 400   | 500     | 300         | 1,100                     | 200    | 900        |
| Other.....                           | 20,000         | 1,900                    | 500   | 1,200   | 200         | 2,700                     | 400    | 2,300      |
| No report.....                       | 900            | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Physical sciences.....               | 8,600          | 2,400                    | 300   | 800     | 1,200       | 900                       | 100    | 800        |
| Business and Industry.....           | 5,000          | 1,800                    | 100   | 600     | 1,100       | 600                       | 100    | 600        |
| Industry.....                        | 5,000          | 1,800                    | 100   | 600     | 1,100       | 600                       | 100    | 600        |
| Self employed.....                   | \$             | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Educ inst, total.....                | 1,800          | 300                      | 100   | 100     | 100         | \$                        | \$     | \$         |
| 4-yr college/univ.....               | 500            | 100                      | 100   | 100     | \$          | \$                        | \$     | \$         |
| Other.....                           | 1,300          | 200                      | 100   | 100     | \$          | \$                        | \$     | \$         |
| Nonprofit orgs.....                  | 300            | 200                      | 100   | 100     | \$          | \$                        | \$     | \$         |
| Federal Government.....              | 300            | 100                      | \$    | \$      | \$          | \$                        | \$     | \$         |
| State/local govt.....                | 300            | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Other.....                           | 900            | \$                       | \$    | \$      | \$          | 200                       | \$     | 200        |
| No report.....                       | 100            | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Math/statistics.....                 | 13,200         | 1,000                    | 100   | 200     | 700         | 1,300                     | 200    | 1,100      |
| Business and Industry.....           | 6,900          | 800                      | \$    | 200     | 600         | 1,000                     | 200    | 800        |
| Industry.....                        | 6,800          | 800                      | \$    | 200     | 600         | 1,000                     | 200    | 800        |
| Self employed.....                   | 100            | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Educ inst, total.....                | 4,100          | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| 4-yr college/univ.....               | 600            | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Other.....                           | 3,600          | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Nonprofit orgs.....                  | 500            | 100                      | \$    | 100     | 100         | \$                        | \$     | \$         |
| Federal Government.....              | 500            | 100                      | \$    | 100     | 100         | \$                        | \$     | \$         |
| State/local govt.....                | 300            | \$                       | \$    | \$      | \$          | 100                       | \$     | 100        |
| Other.....                           | 800            | 100                      | 100   | \$      | \$          | 100                       | \$     | 100        |
| No report.....                       | \$             | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Computer science.....                | 31,500         | 6,800                    | \$    | 400     | 6,400       | 2,700                     | 400    | 2,300      |
| Business and Industry.....           | 25,000         | 5,900                    | \$    | 200     | 5,600       | 2,100                     | 300    | 1,700      |
| Industry.....                        | 24,600         | 5,800                    | \$    | 200     | 5,600       | 2,000                     | 300    | 1,600      |
| Self employed.....                   | 400            | \$                       | \$    | \$      | \$          | 100                       | \$     | 100        |
| Educ inst, total.....                | 1,900          | 400                      | \$    | 100     | 300         | \$                        | \$     | \$         |
| 4-yr college/univ.....               | 1,100          | 400                      | \$    | 100     | 300         | \$                        | \$     | \$         |
| Other.....                           | 900            | 100                      | \$    | 100     | \$          | \$                        | \$     | \$         |
| Nonprofit orgs.....                  | 500            | 100                      | \$    | 100     | 100         | \$                        | \$     | 100        |
| Federal Government.....              | 600            | 200                      | \$    | 200     | 100         | \$                        | \$     | 100        |
| State/local govt.....                | 1,000          | 100                      | \$    | 100     | 100         | \$                        | \$     | 100        |
| Other.....                           | 2,100          | 200                      | \$    | 200     | 200         | 300                       | \$     | 300        |
| No report.....                       | 300            | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |

See explanatory information and SOURCE at end of table.

Table B-8. 1988 science and engineering bachelor's-degree recipients, by field of degree, type of employer, and primary work activity: 1990

| Field of degree and type of employer | Primary work activity |                       |                               |        |                       |        |           |
|--------------------------------------|-----------------------|-----------------------|-------------------------------|--------|-----------------------|--------|-----------|
|                                      | Teaching              | Production/inspection | Reporting/stat work/computing | Sales  | Professional services | Other  | No report |
| Total, all fields.....               | 22,500                | 36,300                | 38,100                        | 21,100 | 4,300                 | 36,500 | 2,500     |
| Business and                         |                       |                       |                               |        |                       |        |           |
| Industry.....                        | 2,600                 | 27,800                | 28,100                        | 18,900 | 500                   | 22,000 | 700       |
| Industry.....                        | 2,400                 | 26,300                | 27,800                        | 18,900 | 300                   | 20,000 | 700       |
| Self employed.....                   | 200                   | 1,500                 | 200                           | 100    | 200                   | 2,000  | 5         |
| Educ inst, total.....                | 12,800                | 900                   | 1,600                         | 400    | 600                   | 1,700  | 200       |
| 4-yr college/univ.....               | 800                   | 400                   | 1,500                         | 200    | 300                   | 1,300  | 200       |
| Other.....                           | 12,000                | 500                   | 1,100                         | 200    | 300                   | 300    | 200       |
| Nonprofit orgs.....                  | 2,200                 | 800                   | 800                           | 100    | 1,100                 | 3,000  | 200       |
| Federal Government.....              | 900                   | 1,800                 | 1,600                         | 300    | 5                     | 1,200  | 5         |
| State/local govt.....                | 900                   | 1,700                 | 2,900                         | 300    | 5                     | 3,100  | 200       |
| Other.....                           | 3,100                 | 3,300                 | 3,100                         | 1,000  | 2,100                 | 5,500  | 200       |
| No report.....                       | 5                     | 5                     | 5                             | 5      | 5                     | 5      | 1,000     |
| Total sciences.....                  | 21,500                | 19,500                | 32,300                        | 18,700 | 4,200                 | 27,900 | 2,000     |
| Business and                         |                       |                       |                               |        |                       |        |           |
| Industry.....                        | 2,400                 | 14,500                | 23,500                        | 16,800 | 500                   | 15,700 | 200       |
| Industry.....                        | 2,200                 | 13,200                | 23,400                        | 16,800 | 300                   | 13,900 | 200       |
| Self employed.....                   | 200                   | 1,300                 | 100                           | 5      | 200                   | 1,800  | 5         |
| Educ inst, total.....                | 12,600                | 800                   | 1,600                         | 400    | 600                   | 1,600  | 200       |
| 4-yr college/univ.....               | 800                   | 200                   | 1,500                         | 200    | 300                   | 1,400  | 200       |
| Other.....                           | 11,800                | 500                   | 100                           | 200    | 300                   | 300    | 5         |
| Nonprofit orgs.....                  | 2,200                 | 600                   | 800                           | 100    | 1,100                 | 2,600  | 200       |
| Federal Government.....              | 900                   | 500                   | 1,100                         | 400    | 5                     | 900    | 5         |
| State/local govt.....                | 900                   | 800                   | 2,300                         | 200    | 5                     | 2,700  | 200       |
| Other.....                           | 2,700                 | 2,300                 | 2,900                         | 900    | 2,100                 | 4,400  | 200       |
| No report.....                       | 5                     | 5                     | 5                             | 5      | 5                     | 5      | 900       |
| Physical sciences.....               | 1,300                 | 1,700                 | 600                           | 300    | 100                   | 1,200  | 100       |
| Business and                         |                       |                       |                               |        |                       |        |           |
| Industry.....                        | 100                   | 1,500                 | 200                           | 300    | 5                     | 600    | 5         |
| Industry.....                        | 100                   | 1,400                 | 200                           | 300    | 5                     | 600    | 5         |
| Self employed.....                   | 5                     | 5                     | 5                             | 5      | 5                     | 5      | 5         |
| Educ inst, total.....                | 1,100                 | 5                     | 200                           | 5      | 100                   | 5      | 5         |
| 4-yr college/univ.....               | 5                     | 5                     | 200                           | 5      | 100                   | 5      | 5         |
| Other.....                           | 1,100                 | 5                     | 5                             | 5      | 5                     | 5      | 5         |
| Nonprofit orgs.....                  | 5                     | 5                     | 5                             | 5      | 5                     | 5      | 5         |
| Federal Government.....              | 5                     | 5                     | 100                           | 5      | 5                     | 5      | 5         |
| State/local govt.....                | 5                     | 100                   | 100                           | 5      | 5                     | 100    | 5         |
| Other.....                           | 5                     | 100                   | 100                           | 5      | 5                     | 500    | 5         |
| No report.....                       | 5                     | 5                     | 5                             | 5      | 5                     | 5      | 100       |
| Math/statistics.....                 | 3,900                 | 1,100                 | 3,200                         | 900    | 5                     | 1,700  | 5         |
| Business and                         |                       |                       |                               |        |                       |        |           |
| Industry.....                        | 5                     | 800                   | 2,500                         | 800    | 5                     | 900    | 5         |
| Industry.....                        | 5                     | 700                   | 2,500                         | 800    | 5                     | 900    | 5         |
| Self employed.....                   | 5                     | 100                   | 5                             | 5      | 5                     | 5      | 5         |
| Educ inst, total.....                | 3,800                 | 100                   | 300                           | 5      | 5                     | 5      | 5         |
| 4-yr college/univ.....               | 200                   | 100                   | 200                           | 5      | 5                     | 5      | 5         |
| Other.....                           | 3,500                 | 5                     | 5                             | 5      | 5                     | 5      | 5         |
| Nonprofit orgs.....                  | 100                   | 5                     | 100                           | 5      | 5                     | 200    | 5         |
| Federal Government.....              | 5                     | 100                   | 100                           | 5      | 5                     | 300    | 5         |
| State/local govt.....                | 5                     | 5                     | 100                           | 5      | 5                     | 5      | 5         |
| Other.....                           | 100                   | 200                   | 100                           | 5      | 5                     | 200    | 5         |
| No report.....                       | 5                     | 5                     | 5                             | 5      | 5                     | 5      | 5         |
| Computer science.....                | 700                   | 2,800                 | 13,800                        | 600    | 100                   | 3,700  | 300       |
| Business and                         |                       |                       |                               |        |                       |        |           |
| Industry.....                        | 200                   | 2,100                 | 11,200                        | 600    | 5                     | 2,900  | 5         |
| Industry.....                        | 100                   | 2,100                 | 11,200                        | 600    | 5                     | 2,800  | 5         |
| Self employed.....                   | 100                   | 5                     | 5                             | 5      | 5                     | 100    | 5         |
| Educ inst, total.....                | 500                   | 300                   | 400                           | 5      | 5                     | 300    | 5         |
| 4-yr college/univ.....               | 100                   | 5                     | 400                           | 5      | 5                     | 200    | 5         |
| Other.....                           | 400                   | 300                   | 100                           | 5      | 5                     | 100    | 5         |
| Nonprofit orgs.....                  | 5                     | 5                     | 300                           | 5      | 5                     | 5      | 5         |
| Federal Government.....              | 5                     | 5                     | 400                           | 5      | 5                     | 5      | 5         |
| State/local govt.....                | 5                     | 100                   | 700                           | 5      | 100                   | 100    | 5         |
| Other.....                           | 5                     | 200                   | 800                           | 5      | 100                   | 400    | 5         |
| No report.....                       | 5                     | 5                     | 5                             | 5      | 5                     | 5      | 300       |

See explanatory information and SOURCE at end of table.

Table 8-8. 1988 science and engineering bachelor's-degree recipients, by field of degree, type of employer, and primary work activity: 1990

| Field of degree and type of employer | Total employed | Primary work activity    |       |         |             |                           |        |            |
|--------------------------------------|----------------|--------------------------|-------|---------|-------------|---------------------------|--------|------------|
|                                      |                | Research and development |       |         |             | Management/administration |        |            |
|                                      |                | Total                    | Basic | Applied | Development | Total                     | Of R&D | Of non-R&D |
| Environ science.....                 | 2,500          | 300                      | \$    | 200     | \$          | 300                       | \$     | 300        |
| Business and                         |                |                          |       |         |             |                           |        |            |
| Industry.....                        | 1,300          | 100                      | \$    | 100     | \$          | 100                       | \$     | 100        |
| Industry.....                        | 1,300          | 100                      | \$    | 100     | \$          | 100                       | \$     | 100        |
| Self employed.....                   | \$             | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Educ inst, total.....                | 100            | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| 4-yr college/univ.....               | \$             | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Other.....                           | 100            | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Nonprofit orgs.....                  | \$             | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Federal Government.....              | 200            | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| State/local govt.....                | 200            | 100                      | \$    | 100     | \$          | \$                        | \$     | \$         |
| Other.....                           | 600            | \$                       | \$    | \$      | \$          | 100                       | \$     | 100        |
| Life sciences.....                   | 33,900         | 6,800                    | 2,500 | 2,900   | 1,400       | 5,200                     | 1,000  | 4,200      |
| Business and                         |                |                          |       |         |             |                           |        |            |
| Industry.....                        | 18,200         | 2,600                    | 500   | 800     | 1,200       | 3,500                     | 300    | 3,100      |
| Industry.....                        | 16,400         | 2,500                    | 500   | 800     | 1,200       | 3,000                     | 300    | 2,700      |
| Self employed.....                   | 1,700          | \$                       | \$    | \$      | \$          | 500                       | \$     | 500        |
| Educ inst, total.....                | 5,200          | 2,100                    | 1,300 | 900     | \$          | 300                       | \$     | 300        |
| 4-yr college/univ.....               | 1,500          | 1,100                    | 600   | 600     | \$          | 300                       | \$     | 300        |
| Other.....                           | 3,800          | 1,000                    | 700   | 300     | \$          | \$                        | \$     | \$         |
| Nonprofit orgs.....                  | 1,700          | 300                      | 300   | \$      | \$          | 600                       | 500    | 100        |
| Federal Government.....              | 1,200          | 300                      | \$    | 200     | 100         | 500                       | 200    | 300        |
| State/local govt.....                | 1,700          | 500                      | 200   | 300     | \$          | 200                       | \$     | 200        |
| Other.....                           | 5,500          | 900                      | 200   | 700     | \$          | 200                       | \$     | 200        |
| No report.....                       | 300            | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Psychology.....                      | 31,000         | 1,100                    | 600   | 200     | 200         | 6,400                     | 500    | 6,000      |
| Business and                         |                |                          |       |         |             |                           |        |            |
| Industry.....                        | 15,600         | 400                      | 200   | \$      | 200         | 4,900                     | 500    | 4,400      |
| Industry.....                        | 14,700         | 400                      | 200   | \$      | 200         | 4,700                     | 500    | 4,200      |
| Self employed.....                   | 800            | \$                       | \$    | \$      | \$          | 200                       | \$     | 200        |
| Educ inst, total.....                | 3,300          | \$                       | \$    | \$      | \$          | 700                       | \$     | 700        |
| 4-yr college/univ.....               | 1,100          | \$                       | \$    | \$      | \$          | 400                       | \$     | 400        |
| Other.....                           | 2,100          | \$                       | \$    | \$      | \$          | 200                       | \$     | 200        |
| Nonprofit orgs.....                  | 5,100          | \$                       | \$    | \$      | \$          | 700                       | \$     | 700        |
| Federal Government.....              | 400            | \$                       | \$    | \$      | \$          | 200                       | \$     | 200        |
| State/local govt.....                | 2,100          | 200                      | 200   | 200     | \$          | \$                        | \$     | \$         |
| Other.....                           | 4,500          | 400                      | 200   | 200     | \$          | \$                        | \$     | \$         |
| Social sciences.....                 | 56,000         | 2,600                    | 200   | 700     | 1,600       | 12,900                    | 1,800  | 11,100     |
| Business and                         |                |                          |       |         |             |                           |        |            |
| Industry.....                        | 35,800         | 1,500                    | 200   | 400     | 800         | 8,900                     | 800    | 8,100      |
| Industry.....                        | 33,400         | 1,500                    | 200   | 400     | 800         | 7,900                     | 600    | 7,200      |
| Self employed.....                   | 2,400          | \$                       | \$    | \$      | \$          | 1,000                     | 200    | 900        |
| Educ inst, total.....                | 5,500          | \$                       | \$    | \$      | \$          | 400                       | \$     | 400        |
| 4-yr college/univ.....               | 2,300          | \$                       | \$    | \$      | \$          | 200                       | \$     | 200        |
| Other.....                           | 3,200          | \$                       | \$    | \$      | \$          | 200                       | \$     | 200        |
| Nonprofit orgs.....                  | 2,500          | \$                       | \$    | \$      | \$          | 1,100                     | 500    | 700        |
| Federal Government.....              | 2,500          | 500                      | \$    | \$      | 500         | 200                       | \$     | 200        |
| State/local govt.....                | 3,800          | 300                      | \$    | 100     | 200         | 600                       | 200    | 400        |
| Other.....                           | 5,600          | 200                      | \$    | 200     | \$          | 1,700                     | 400    | 1,300      |
| No report.....                       | 300            | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Total engineering.....               | 64,000         | 20,800                   | 400   | 1,700   | 18,700      | 8,000                     | 1,700  | 6,300      |
| Business and                         |                |                          |       |         |             |                           |        |            |
| Industry.....                        | 49,700         | 17,400                   | 300   | 1,100   | 16,100      | 5,300                     | 1,100  | 4,200      |
| Industry.....                        | 48,800         | 17,400                   | 300   | 1,100   | 16,000      | 5,100                     | 1,100  | 4,000      |
| Self employed.....                   | 900            | 100                      | \$    | \$      | 100         | 300                       | 100    | 200        |
| Educ inst, total.....                | 800            | 200                      | \$    | 100     | 200         | \$                        | \$     | \$         |
| 4-yr college/univ.....               | 500            | 200                      | \$    | \$      | 200         | \$                        | \$     | \$         |
| Other.....                           | 200            | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Nonprofit orgs.....                  | 800            | 100                      | \$    | \$      | 100         | 100                       | \$     | 100        |
| Federal Government.....              | 4,000          | 1,400                    | 100   | 400     | 1,000       | 500                       | 100    | 300        |
| State/local govt.....                | 3,200          | 800                      | \$    | 100     | 700         | 400                       | 200    | 300        |
| Other.....                           | 5,300          | 800                      | \$    | 100     | 600         | 1,700                     | 200    | 1,500      |
| No report.....                       | 200            | 100                      | \$    | \$      | 100         | \$                        | \$     | \$         |

See explanatory information and SOURCE at end of table.

Table B-8. 1988 science and engineering bachelor's-degree recipients, by field of degree, type of employer, and primary work activity: 1990

| Field of degree and type of employer | Primary work activity |                       |                               |        |                       |       | No report |
|--------------------------------------|-----------------------|-----------------------|-------------------------------|--------|-----------------------|-------|-----------|
|                                      | Teaching              | Production/inspection | Reporting/stat work/computing | Sales  | Professional services | Other |           |
| Environ science.....                 | 100                   | 600                   | 200                           | 100    | S                     | 900   | S         |
| Business and                         |                       |                       |                               |        |                       |       |           |
| Industry.....                        | S                     | 300                   | 100                           | 100    | S                     | 600   | S         |
| Industry.....                        | S                     | 300                   | 100                           | 100    | S                     | 600   | S         |
| Self employed.....                   | S                     | S                     | S                             | S      | S                     | S     | S         |
| Educ inst, total.....                | 100                   | S                     | S                             | S      | S                     | S     | S         |
| 4-yr college/univ.....               | S                     | S                     | S                             | S      | S                     | S     | S         |
| Other.....                           | 100                   | S                     | S                             | S      | S                     | S     | S         |
| Nonprofit orgs.....                  | S                     | S                     | S                             | S      | S                     | S     | S         |
| Federal Government.....              | S                     | 100                   | 100                           | S      | S                     | S     | S         |
| State/local govt.....                | S                     | 100                   | S                             | S      | S                     | S     | S         |
| Other.....                           | S                     | 100                   | S                             | S      | S                     | 300   | S         |
| Life sciences.....                   | 3,900                 | 6,000                 | 2,200                         | 3,300  | 1,100                 | 4,900 | 700       |
| Business and                         |                       |                       |                               |        |                       |       |           |
| Industry.....                        | 300                   | 4,500                 | 1,200                         | 2,800  | 300                   | 2,900 | 200       |
| Industry.....                        | 300                   | 4,000                 | 1,200                         | 2,800  | 300                   | 2,200 | 200       |
| Self employed.....                   | S                     | 500                   | S                             | S      | S                     | 700   | S         |
| Educ inst, total.....                | 2,500                 | 100                   | S                             | S      | S                     | 200   | S         |
| 4-yr college/univ.....               | S                     | 100                   | S                             | S      | S                     | S     | S         |
| Other.....                           | 2,500                 | S                     | S                             | S      | S                     | 200   | S         |
| Nonprofit orgs.....                  | 600                   | 300                   | S                             | S      | S                     | S     | S         |
| Federal Government.....              | S                     | 100                   | S                             | S      | S                     | 300   | S         |
| State/local govt.....                | S                     | 300                   | 100                           | S      | S                     | 500   | S         |
| Other.....                           | 500                   | 700                   | 900                           | 400    | 800                   | 900   | 200       |
| No report.....                       | S                     | S                     | S                             | S      | S                     | S     | 300       |
| Psychology.....                      | 5,100                 | 2,600                 | 3,700                         | 3,400  | 2,100                 | 6,000 | 400       |
| Business and                         |                       |                       |                               |        |                       |       |           |
| Industry.....                        | 1,000                 | 1,700                 | 1,700                         | 3,400  | S                     | 2,400 | S         |
| Industry.....                        | 1,000                 | 1,300                 | 1,700                         | 3,400  | S                     | 2,200 | S         |
| Self employed.....                   | S                     | 400                   | 100                           | S      | S                     | 200   | S         |
| Educ inst, total.....                | 1,700                 | 200                   | 200                           | S      | 200                   | 200   | S         |
| 4-yr college/univ.....               | S                     | S                     | 200                           | S      | 200                   | 200   | S         |
| Other.....                           | 1,700                 | 200                   | S                             | S      | S                     | S     | S         |
| Nonprofit orgs.....                  | 800                   | 200                   | 200                           | S      | 1,100                 | 1,900 | 200       |
| Federal Government.....              | S                     | S                     | S                             | S      | S                     | 200   | S         |
| State/local govt.....                | 400                   | S                     | 900                           | S      | S                     | 400   | 200       |
| Other.....                           | 1,100                 | 500                   | 700                           | S      | 800                   | 800   | S         |
| Social sciences.....                 | 6,600                 | 4,600                 | 8,500                         | 10,200 | 700                   | 9,500 | 500       |
| Business and                         |                       |                       |                               |        |                       |       |           |
| Industry.....                        | 800                   | 3,700                 | 6,500                         | 8,800  | 200                   | 5,500 | S         |
| Industry.....                        | 600                   | 3,500                 | 6,500                         | 8,800  | S                     | 4,700 | S         |
| Self employed.....                   | 200                   | 200                   | S                             | S      | 200                   | 800   | S         |
| Educ inst, total.....                | 3,000                 | S                     | 500                           | 400    | 200                   | 800   | 200       |
| 4-yr college/univ.....               | 400                   | S                     | 500                           | 200    | S                     | 800   | 200       |
| Other.....                           | 2,600                 | S                     | S                             | 200    | 200                   | S     | S         |
| Nonprofit orgs.....                  | 700                   | S                     | 200                           | S      | S                     | 400   | S         |
| Federal Government.....              | 800                   | 200                   | 500                           | 400    | S                     | S     | S         |
| State/local govt.....                | 400                   | 200                   | 400                           | 200    | S                     | 1,500 | S         |
| Other.....                           | 1,000                 | 400                   | 400                           | 500    | 300                   | 1,200 | S         |
| No report.....                       | S                     | S                     | S                             | S      | S                     | S     | 300       |
| Total engineering.....               | 1,000                 | 16,900                | 5,800                         | 2,400  | 100                   | 8,500 | 500       |
| Business and                         |                       |                       |                               |        |                       |       |           |
| Industry.....                        | 200                   | 13,300                | 4,600                         | 2,200  | S                     | 6,300 | 400       |
| Industry.....                        | 200                   | 13,100                | 4,500                         | 2,100  | S                     | 6,100 | 400       |
| Self employed.....                   | S                     | 200                   | 100                           | S      | S                     | 200   | S         |
| Educ inst, total.....                | 300                   | 200                   | 100                           | S      | S                     | 100   | S         |
| 4-yr college/univ.....               | S                     | 200                   | S                             | S      | S                     | 100   | S         |
| Other.....                           | 200                   | S                     | S                             | S      | S                     | S     | S         |
| Nonprofit orgs.....                  | S                     | 200                   | S                             | S      | S                     | 400   | S         |
| Federal Government.....              | 100                   | 1,300                 | 400                           | S      | S                     | 300   | S         |
| State/local govt.....                | S                     | 900                   | 600                           | 100    | S                     | 400   | S         |
| Other.....                           | 400                   | 1,000                 | 200                           | 100    | 100                   | 1,100 | S         |
| No report.....                       | S                     | S                     | S                             | S      | S                     | S     | 100       |

KEY: S = Data suppressed for statistical reasons

NOTES: Because of rounding, components may not add to totals.  
Data exclude those on full-time graduate students.

SOURCE: National Science Foundation/SRS, 1990, New Entrants Survey

Table B-9. 1988 science and engineering (S&E) bachelor's-degree recipients, by field of degree and field of employment: 1990

| Field of degree        | Total employed | Employed in non S&E occupation | Employed in S&E occupation | S&E field of employment |                   |                         |           |                  |
|------------------------|----------------|--------------------------------|----------------------------|-------------------------|-------------------|-------------------------|-----------|------------------|
|                        |                |                                |                            | Chemistry               | Physics/astronomy | Other physical sciences | Math/stat | Computer science |
| Total, all fields..... | 240,800        | 99,800                         | 140,900                    | 4,000                   | 500               | 2,000                   | 9,400     | 38,400           |
| Total sciences.....    | 176,700        | 91,100                         | 85,700                     | 4,000                   | 500               | 2,000                   | 7,200     | 32,300           |
| Physical sciences..... | 8,600          | 2,600                          | 5,900                      | 2,700                   | 200               | 1,100                   | 100       | 500              |
| Chemistry.....         | 4,700          | 1,200                          | 3,400                      | 2,500                   | S                 | 200                     | 100       | 200              |
| Physics/astronomy..... | 2,200          | 600                            | 1,600                      | 300                     | 200               | 200                     | S         | 300              |
| Other phys sciences... | 1,700          | 800                            | 800                        | S                       | S                 | 600                     | S         | 100              |
| Math/statistics.....   | 13,200         | 4,200                          | 9,100                      | S                       | 300               | S                       | 5,200     | 2,500            |
| Computer science.....  | 31,500         | 5,200                          | 26,300                     | S                       | S                 | S                       | 400       | 24,200           |
| Environ science.....   | 2,500          | 700                            | 1,800                      | S                       | S                 | 100                     | S         | S                |
| Life sciences.....     | 33,900         | 14,900                         | 19,000                     | 1,000                   | S                 | 300                     | 300       | 1,500            |
| Biology.....           | 21,600         | 10,300                         | 11,400                     | 800                     | S                 | 300                     | 200       | 1,000            |
| Agr science.....       | 12,300         | 4,600                          | 7,700                      | 200                     | S                 | S                       | 100       | 500              |
| Psychology.....        | 31,000         | 22,400                         | 8,600                      | S                       | S                 | 500                     | 700       | 1,700            |
| Social sciences.....   | 56,000         | 41,000                         | 15,000                     | 200                     | S                 | S                       | 600       | 1,800            |
| Economics.....         | 18,700         | 13,500                         | 5,200                      | S                       | S                 | S                       | 200       | 1,300            |
| Socio/anthro.....      | 12,900         | 10,300                         | 2,600                      | S                       | S                 | S                       | S         | 100              |
| Other soc sciences.... | 24,400         | 17,200                         | 7,200                      | 200                     | S                 | S                       | 400       | 400              |
| Total engineering..... | 64,000         | 8,800                          | 55,300                     | S                       | S                 | 100                     | 2,200     | 6,100            |
| Aero/astro.....        | 2,900          | 700                            | 2,200                      | S                       | S                 | 100                     | 100       | 100              |
| Chemical.....          | 3,100          | 400                            | 2,700                      | S                       | S                 | S                       | 100       | 100              |
| Civil.....             | 6,800          | 700                            | 6,100                      | S                       | S                 | S                       | 100       | S                |
| Elect/electron.....    | 23,700         | 3,000                          | 20,700                     | S                       | S                 | S                       | 700       | 4,200            |
| Industrial.....        | 6,100          | 1,200                          | 4,900                      | S                       | S                 | S                       | 400       | 300              |
| Materials.....         | 700            | 100                            | 600                        | S                       | S                 | S                       | S         | S                |
| Mechanical.....        | 12,500         | 1,000                          | 11,500                     | S                       | S                 | S                       | 500       | 700              |
| Mining.....            | 500            | S                              | 500                        | S                       | S                 | S                       | S         | S                |
| Nuclear.....           | 300            | S                              | 300                        | S                       | S                 | S                       | S         | S                |
| Petroleum.....         | 500            | S                              | 500                        | S                       | S                 | S                       | S         | S                |
| Other engineering....  | 6,900          | 1,700                          | 5,200                      | S                       | S                 | S                       | 200       | 600              |

| Field of degree        | S&E field of employment |         |               |            |           |                         |                       |             |
|------------------------|-------------------------|---------|---------------|------------|-----------|-------------------------|-----------------------|-------------|
|                        | Environ science         | Biology | Agric science | Psychology | Economics | Sociology anthro-pology | Other social sciences | Engineering |
| Total, all fields..... | 2,000                   | 8,500   | 6,700         | 2,800      | 2,800     | 1,900                   | 6,800                 | 55,100      |
| Total sciences.....    | 1,800                   | 8,400   | 6,300         | 2,800      | 2,800     | 1,900                   | 6,800                 | 9,000       |
| Physical sciences..... | 100                     | 300     | S             | S          | S         | S                       | S                     | 900         |
| Chemistry.....         | S                       | 300     | S             | S          | S         | S                       | S                     | 200         |
| Physics/astronomy..... | 100                     | S       | S             | S          | S         | S                       | S                     | 600         |
| Other phys sciences... | S                       | S       | S             | S          | S         | S                       | S                     | 100         |
| Math/statistics.....   | S                       | S       | S             | S          | S         | 100                     | 100                   | 900         |
| Computer science.....  | S                       | S       | S             | S          | S         | S                       | 100                   | 1,500       |
| Environ science.....   | 1,300                   | S       | S             | S          | S         | S                       | S                     | 400         |
| Life sciences.....     | S                       | 7,800   | 4,900         | 200        | 200       | S                       | 300                   | 2,400       |
| Biology.....           | S                       | 7,400   | 700           | S          | S         | S                       | S                     | 1,100       |
| Agr science.....       | S                       | 400     | 4,300         | 200        | 200       | S                       | 300                   | 1,300       |
| Psychology.....        | S                       | 200     | 200           | 2,500      | S         | 500                     | 1,100                 | 1,300       |
| Social sciences.....   | 400                     | S       | 1,000         | 100        | 2,600     | 1,300                   | 5,200                 | 1,700       |
| Economics.....         | S                       | S       | 200           | S          | 2,400     | S                       | 200                   | 1,000       |
| Socio/anthro.....      | 200                     | S       | S             | 100        | 200       | 1,300                   | 600                   | S           |
| Other soc sciences.... | 200                     | S       | 900           | S          | S         | S                       | 4,400                 | 700         |
| Total engineering..... | 200                     | 100     | 400           | S          | S         | S                       | S                     | 46,100      |
| Aero/astro.....        | S                       | S       | S             | S          | S         | S                       | S                     | 1,900       |
| Chemical.....          | S                       | S       | 100           | S          | S         | S                       | S                     | 2,300       |
| Civil.....             | S                       | S       | S             | S          | S         | S                       | S                     | 6,000       |
| Elect/electron.....    | S                       | S       | 100           | S          | S         | S                       | S                     | 15,700      |
| Industrial.....        | S                       | S       | S             | S          | S         | S                       | S                     | 4,200       |
| Materials.....         | S                       | S       | S             | S          | S         | S                       | S                     | 600         |
| Mechanical.....        | S                       | S       | 100           | S          | S         | S                       | S                     | 10,100      |
| Mining.....            | 100                     | S       | S             | S          | S         | S                       | S                     | 400         |
| Nuclear.....           | S                       | S       | S             | S          | S         | S                       | S                     | 300         |
| Petroleum.....         | S                       | S       | S             | S          | S         | S                       | S                     | 400         |
| Other engineering....  | 100                     | S       | 100           | S          | S         | S                       | S                     | 4,100       |

KEY: S = Data suppressed for statistical reasons

NOTES: Because of rounding, components may not add to totals.  
Data exclude those on full-time graduate students.

SOURCE: National Science Foundation/SRS, 1990 New Entrants Survey

Table B-10. 1988 science and engineering (S&E) bachelor's-degree recipients employed in S&E occupations, by field of degree, type of employer, and primary work activity: 1990

| Field of degree            | Employed in S&E occupation | Primary work activity    |       |         |             |                           |        |            |
|----------------------------|----------------------------|--------------------------|-------|---------|-------------|---------------------------|--------|------------|
|                            |                            | Research and development |       |         |             | Management/administration |        |            |
|                            |                            | Total                    | Basic | Applied | Development | Total                     | Of R&D | Of non-R&D |
| Total, all fields.....     | 140,900                    | 37,000                   | 3,200 | 5,900   | 28,000      | 13,700                    | 2,600  | 11,200     |
| Business and Industry..... | 95,300                     | 27,400                   | 1,100 | 2,700   | 23,600      | 5,400                     | 1,600  | 7,400      |
| Industry.....              | 92,500                     | 27,200                   | 1,100 | 2,700   | 23,500      | 7,700                     | 1,600  | 6,100      |
| Self employed.....         | 2,800                      | 100                      | \$    | \$      | 100         | \$                        | \$     | \$         |
| Educ inst, total.....      | 12,900                     | 2,800                    | 1,200 | 1,100   | 500         | 1,300                     | \$     | 1,300      |
| 4-yr college/univ.....     | 3,900                      | 1,200                    | 600   | 700     | 500         | \$                        | \$     | \$         |
| Other.....                 | 9,000                      | 1,600                    | 500   | 400     | \$          | \$                        | \$     | \$         |
| Nonprofit orgs.....        | 5,900                      | 800                      | 400   | 100     | 300         | 800                       | 200    | 500        |
| Federal Government.....    | 8,200                      | 2,500                    | 100   | 600     | 1,800       | 1,000                     | 200    | 800        |
| State/local govt.....      | 8,300                      | 1,600                    | 200   | 500     | 900         | 1,200                     | 200    | 1,000      |
| Other.....                 | 10,200                     | 1,900                    | 300   | 800     | 800         | 1,800                     | 400    | 1,400      |
| No report.....             | \$                         | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Total sciences.....        | 85,700                     | 17,300                   | 2,900 | 4,300   | 10,100      | 8,400                     | 1,200  | 7,200      |
| Business and Industry..... | 51,300                     | 10,900                   | 800   | 1,900   | 8,200       | 5,100                     | 600    | 4,500      |
| Industry.....              | 48,700                     | 10,800                   | 800   | 1,900   | 8,100       | 3,800                     | 600    | 3,200      |
| Self employed.....         | 2,500                      | 100                      | \$    | \$      | 100         | 1,300                     | \$     | 1,300      |
| Educ inst, total.....      | 12,300                     | 2,600                    | 1,100 | 1,100   | 300         | \$                        | \$     | \$         |
| 4-yr college/univ.....     | 3,400                      | 1,600                    | 600   | 700     | 300         | \$                        | \$     | \$         |
| Other.....                 | 8,900                      | 900                      | 500   | 400     | \$          | \$                        | \$     | \$         |
| Nonprofit orgs.....        | 5,400                      | 700                      | 400   | 100     | 200         | 800                       | 200    | 500        |
| Federal Government.....    | 4,500                      | 1,000                    | \$    | 200     | 900         | 700                       | 100    | 600        |
| State/local govt.....      | 5,200                      | 900                      | 200   | 400     | 300         | 800                       | \$     | 800        |
| Other.....                 | 7,000                      | 1,200                    | 300   | 700     | 200         | 1,000                     | 200    | 800        |
| Physical sciences.....     | 5,900                      | 2,100                    | 300   | 800     | 1,100       | 300                       | \$     | 300        |
| Business and Industry..... | 3,800                      | 1,600                    | 100   | 600     | 1,000       | 200                       | \$     | 200        |
| Industry.....              | 3,700                      | 1,600                    | 100   | 600     | 1,000       | 200                       | \$     | 200        |
| Self employed.....         | \$                         | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Educ inst, total.....      | 1,400                      | 300                      | 100   | 100     | 100         | \$                        | \$     | \$         |
| 4-yr college/univ.....     | 400                        | 100                      | \$    | 100     | \$          | \$                        | \$     | \$         |
| Other.....                 | 900                        | 100                      | 100   | \$      | \$          | \$                        | \$     | \$         |
| Nonprofit orgs.....        | 200                        | 200                      | 100   | \$      | \$          | \$                        | \$     | \$         |
| Federal Government.....    | 100                        | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| State/local govt.....      | 200                        | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Other.....                 | 300                        | \$                       | \$    | \$      | \$          | 100                       | \$     | 100        |
| Math/statistics.....       | 9,100                      | 900                      | 100   | 100     | 700         | 400                       | 100    | 300        |
| Business and Industry..... | 4,200                      | 700                      | \$    | 100     | 600         | 400                       | 100    | 200        |
| Industry.....              | 4,200                      | 700                      | \$    | 100     | 600         | 400                       | 100    | 200        |
| Self employed.....         | 100                        | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Educ inst, total.....      | 3,500                      | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| 4-yr college/univ.....     | 400                        | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Other.....                 | 3,100                      | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Nonprofit orgs.....        | 200                        | 100                      | \$    | \$      | 100         | \$                        | \$     | \$         |
| Federal Government.....    | 500                        | 100                      | \$    | \$      | 100         | \$                        | \$     | \$         |
| State/local govt.....      | 200                        | \$                       | \$    | \$      | \$          | 100                       | \$     | 100        |
| Other.....                 | 300                        | 100                      | 100   | \$      | \$          | \$                        | \$     | \$         |
| Computer science.....      | 26,300                     | 6,500                    | \$    | 300     | 6,200       | 1,500                     | 400    | 1,200      |
| Business and Industry..... | 21,700                     | 5,600                    | \$    | 100     | 5,400       | 1,200                     | 300    | 900        |
| Industry.....              | 21,400                     | 5,600                    | \$    | 100     | 5,400       | 1,200                     | 300    | 900        |
| Self employed.....         | 300                        | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Educ inst, total.....      | 1,400                      | 400                      | \$    | 100     | 300         | \$                        | \$     | \$         |
| 4-yr college/univ.....     | 900                        | 400                      | \$    | 100     | 300         | \$                        | \$     | \$         |
| Other.....                 | 500                        | 100                      | \$    | 100     | \$          | \$                        | \$     | \$         |
| Nonprofit orgs.....        | 400                        | 100                      | \$    | \$      | 100         | 100                       | \$     | 100        |
| Federal Government.....    | 600                        | 200                      | \$    | \$      | 200         | \$                        | \$     | \$         |
| State/local govt.....      | 1,000                      | 100                      | \$    | \$      | 100         | 100                       | \$     | 100        |
| Other.....                 | 1,200                      | 200                      | \$    | \$      | 200         | 100                       | \$     | 100        |

See explanatory information and SOURCE at end of table.

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Table B-10. 1989 science and engineering (S&E) bachelor's-degree recipients employed in S&E occupations, by field of degree, type of employer, and primary work activity: 1990

| Field of degree         | Primary work activity |                       |                               |       |                       |        |           |
|-------------------------|-----------------------|-----------------------|-------------------------------|-------|-----------------------|--------|-----------|
|                         | Teaching              | Production/inspection | Reporting/stat work/computing | Sales | Professional services | Other  | No report |
| Total, all fields.....  | 11,200                | 26,500                | 28,900                        | 4,400 | 1,900                 | 17,000 | 400       |
| Business and            |                       |                       |                               |       |                       |        |           |
| Industry.....           | 1,000                 | 20,400                | 21,800                        | 3,900 | 300                   | 11,200 | 300       |
| Industry.....           | 1,000                 | 19,900                | 21,600                        | 3,900 | 300                   | 10,700 | 300       |
| Self employed.....      | 100                   | 500                   | 200                           | 5     | 5                     | 500    | 5         |
| Educ inst, total.....   | 7,800                 | 500                   | 1,300                         | 200   | 100                   | 300    | 200       |
| 4-yr college/univ.....  | 200                   | 200                   | 1,200                         | 200   | 100                   | 200    | 200       |
| Other.....              | 7,500                 | 300                   | 100                           | 5     | 5                     | 5      | 5         |
| Nonprofit orgs.....     | 700                   | 500                   | 800                           | 200   | 800                   | 1,500  | 5         |
| Federal Government..... | 400                   | 1,700                 | 1,500                         | 200   | 5                     | 900    | 5         |
| State/local govt.....   | 200                   | 1,400                 | 2,400                         | 100   | 5                     | 1,300  | 5         |
| Other.....              | 1,000                 | 2,000                 | 1,100                         | 5     | 5                     | 1,800  | 5         |
| No report.....          | 5                     | 5                     | 5                             | 5     | 5                     | 5      | 5         |
| Total sciences.....     | 10,600                | 11,400                | 23,300                        | 3,000 | 1,900                 | 9,800  | 5         |
| Business and            |                       |                       |                               |       |                       |        |           |
| Industry.....           | 900                   | 8,500                 | 17,500                        | 2,600 | 300                   | 5,600  | 5         |
| Industry.....           | 800                   | 7,900                 | 17,400                        | 2,600 | 300                   | 5,200  | 5         |
| Self employed.....      | 100                   | 500                   | 100                           | 5     | 5                     | 500    | 5         |
| Educ inst, total.....   | 7,600                 | 300                   | 1,300                         | 200   | 100                   | 200    | 200       |
| 4-yr college/univ.....  | 200                   | 100                   | 1,200                         | 200   | 100                   | 200    | 200       |
| Other.....              | 7,400                 | 300                   | 100                           | 5     | 5                     | 5      | 5         |
| Nonprofit orgs.....     | 700                   | 300                   | 800                           | 200   | 800                   | 1,300  | 5         |
| Federal Government..... | 300                   | 500                   | 1,100                         | 200   | 5                     | 600    | 5         |
| State/local govt.....   | 200                   | 500                   | 1,800                         | 5     | 5                     | 900    | 5         |
| Other.....              | 800                   | 1,300                 | 900                           | 5     | 700                   | 1,100  | 5         |
| Physical sciences.....  | 900                   | 1,500                 | 400                           | 5     | 100                   | 500    | 5         |
| Business and            |                       |                       |                               |       |                       |        |           |
| Industry.....           | 100                   | 1,300                 | 200                           | 5     | 5                     | 400    | 5         |
| Industry.....           | 100                   | 1,300                 | 200                           | 5     | 5                     | 400    | 5         |
| Self employed.....      | 5                     | 5                     | 5                             | 5     | 5                     | 5      | 5         |
| Educ inst, total.....   | 800                   | 5                     | 200                           | 5     | 100                   | 5      | 5         |
| 4-yr college/univ.....  | 5                     | 5                     | 200                           | 5     | 100                   | 5      | 5         |
| Other.....              | 800                   | 5                     | 5                             | 5     | 5                     | 5      | 5         |
| Nonprofit orgs.....     | 5                     | 5                     | 5                             | 5     | 5                     | 5      | 5         |
| Federal Government..... | 5                     | 5                     | 5                             | 5     | 5                     | 5      | 5         |
| State/local govt.....   | 5                     | 100                   | 5                             | 5     | 5                     | 5      | 5         |
| Other.....              | 5                     | 100                   | 5                             | 5     | 5                     | 100    | 5         |
| Math/statistics.....    | 3,300                 | 700                   | 2,800                         | 5     | 5                     | 1,000  | 5         |
| Business and            |                       |                       |                               |       |                       |        |           |
| Industry.....           | 5                     | 400                   | 2,200                         | 5     | 5                     | 600    | 5         |
| Industry.....           | 5                     | 300                   | 2,200                         | 5     | 5                     | 600    | 5         |
| Self employed.....      | 5                     | 100                   | 5                             | 5     | 5                     | 5      | 5         |
| Educ inst, total.....   | 3,200                 | 5                     | 300                           | 5     | 5                     | 5      | 5         |
| 4-yr college/univ.....  | 200                   | 5                     | 200                           | 5     | 5                     | 5      | 5         |
| Other.....              | 3,100                 | 5                     | 5                             | 5     | 5                     | 5      | 5         |
| Nonprofit orgs.....     | 100                   | 5                     | 100                           | 5     | 5                     | 300    | 5         |
| Federal Government..... | 5                     | 100                   | 100                           | 5     | 5                     | 5      | 5         |
| State/local govt.....   | 5                     | 5                     | 100                           | 5     | 5                     | 5      | 5         |
| Other.....              | 5                     | 200                   | 5                             | 5     | 5                     | 5      | 5         |
| Computer science.....   | 600                   | 2,100                 | 13,100                        | 200   | 5                     | 2,200  | 5         |
| Business and            |                       |                       |                               |       |                       |        |           |
| Industry.....           | 200                   | 1,800                 | 10,800                        | 200   | 5                     | 1,800  | 5         |
| Industry.....           | 100                   | 1,800                 | 10,800                        | 200   | 5                     | 1,700  | 5         |
| Self employed.....      | 100                   | 5                     | 5                             | 5     | 5                     | 100    | 5         |
| Educ inst, total.....   | 400                   | 5                     | 400                           | 5     | 5                     | 200    | 5         |
| 4-yr college/univ.....  | 5                     | 5                     | 300                           | 5     | 5                     | 100    | 5         |
| Other.....              | 300                   | 5                     | 5                             | 5     | 5                     | 5      | 5         |
| Nonprofit orgs.....     | 5                     | 5                     | 300                           | 5     | 5                     | 5      | 5         |
| Federal Government..... | 5                     | 5                     | 400                           | 5     | 5                     | 5      | 5         |
| State/local govt.....   | 5                     | 100                   | 700                           | 5     | 5                     | 100    | 5         |
| Other.....              | 5                     | 200                   | 600                           | 5     | 5                     | 200    | 5         |

See explanatory information and SOURCE at end of table.



Table B-10. 1988 science and engineering (S&E) bachelor's-degree recipients employed in S&E occupations, by field of degree, type of employer, and primary work activity: 1990

| Field of degree        | Employed in S&E occupation | Primary work activity    |       |         |             |                           |        |            |
|------------------------|----------------------------|--------------------------|-------|---------|-------------|---------------------------|--------|------------|
|                        |                            | Research and development |       |         |             | Management/administration |        |            |
|                        |                            | Total                    | Basic | Applied | Development | Total                     | Of R&D | Of non-R&D |
| Environ science.....   | 1,800                      | 300                      | 5     | 200     | 5           | 100                       | 5      | 100        |
| Business and           |                            |                          |       |         |             |                           |        |            |
| Industry.....          | 900                        | 100                      | 5     | 100     | 5           | 5                         | 5      | 5          |
| Industry.....          | 900                        | 100                      | 5     | 100     | 5           | 5                         | 5      | 5          |
| Educ inst. total....   | 100                        | 5                        | 5     | 5       | 5           | 5                         | 5      | 5          |
| 4-yr college/univ.     | 5                          | 5                        | 5     | 5       | 5           | 5                         | 5      | 5          |
| Other.....             | 5                          | 5                        | 5     | 5       | 5           | 5                         | 5      | 5          |
| Federal Government..   | 200                        | 5                        | 5     | 5       | 5           | 5                         | 5      | 5          |
| State/local govt....   | 200                        | 100                      | 5     | 100     | 5           | 5                         | 5      | 5          |
| Other.....             | 400                        | 5                        | 5     | 5       | 5           | 5                         | 5      | 5          |
| Life sciences.....     | 19,000                     | 5,600                    | 2,200 | 2,300   | 1,000       | 2,000                     | 500    | 1,500      |
| Business and           |                            |                          |       |         |             |                           |        |            |
| Industry.....          | 10,000                     | 2,000                    | 500   | 600     | 900         | 1,200                     | 100    | 1,100      |
| Industry.....          | 8,900                      | 2,000                    | 500   | 600     | 900         | 700                       | 100    | 600        |
| Self employed....      | 1,100                      | 5                        | 5     | 600     | 900         | 500                       | 500    | 500        |
| Educ inst. total....   | 4,000                      | 1,800                    | 1,000 | 900     | 5           | 5                         | 5      | 5          |
| 4-yr college/univ.     | 1,200                      | 1,100                    | 600   | 600     | 5           | 5                         | 5      | 5          |
| Other.....             | 2,800                      | 700                      | 400   | 300     | 5           | 5                         | 5      | 5          |
| Nonprofit orgs.....    | 900                        | 300                      | 300   | 5       | 5           | 200                       | 200    | 200        |
| Federal Government..   | 900                        | 300                      | 5     | 200     | 100         | 200                       | 100    | 100        |
| State/local govt....   | 1,200                      | 500                      | 200   | 300     | 5           | 200                       | 200    | 200        |
| Other.....             | 2,000                      | 700                      | 200   | 500     | 5           | 200                       | 5      | 200        |
| Psychology.....        | 8,600                      | 200                      | 5     | 200     | 5           | 1,100                     | 5      | 1,100      |
| Business and           |                            |                          |       |         |             |                           |        |            |
| Industry.....          | 3,300                      | 5                        | 5     | 5       | 5           | 600                       | 5      | 600        |
| Industry.....          | 3,000                      | 5                        | 5     | 5       | 5           | 400                       | 5      | 400        |
| Self employed....      | 300                        | 5                        | 5     | 5       | 5           | 200                       | 5      | 200        |
| Educ inst. total....   | 200                        | 5                        | 5     | 5       | 5           | 5                         | 5      | 5          |
| 4-yr college/univ.     | 200                        | 5                        | 5     | 5       | 5           | 5                         | 5      | 5          |
| Other.....             | 200                        | 5                        | 5     | 5       | 5           | 5                         | 5      | 5          |
| Nonprofit orgs.....    | 2,800                      | 5                        | 5     | 5       | 5           | 200                       | 5      | 200        |
| Federal Government..   | 200                        | 5                        | 5     | 5       | 5           | 200                       | 5      | 200        |
| State/local govt....   | 800                        | 5                        | 5     | 5       | 5           | 5                         | 5      | 5          |
| Other.....             | 1,200                      | 200                      | 5     | 200     | 5           | 5                         | 5      | 5          |
| Social sciences.....   | 15,000                     | 1,600                    | 200   | 400     | 1,000       | 2,900                     | 200    | 2,700      |
| Business and           |                            |                          |       |         |             |                           |        |            |
| Industry.....          | 7,400                      | 900                      | 200   | 400     | 200         | 1,400                     | 5      | 1,400      |
| Industry.....          | 6,600                      | 900                      | 200   | 400     | 200         | 800                       | 5      | 800        |
| Self employed....      | 800                        | 5                        | 5     | 5       | 5           | 600                       | 5      | 600        |
| Educ inst. total....   | 1,700                      | 5                        | 5     | 5       | 5           | 5                         | 5      | 5          |
| 4-yr college/univ.     | 1,500                      | 5                        | 5     | 5       | 5           | 5                         | 5      | 5          |
| Other.....             | 1,200                      | 5                        | 5     | 5       | 5           | 5                         | 5      | 5          |
| Nonprofit orgs.....    | 900                        | 5                        | 5     | 5       | 5           | 200                       | 5      | 200        |
| Federal Government..   | 1,900                      | 500                      | 5     | 5       | 500         | 200                       | 5      | 200        |
| State/local govt....   | 1,600                      | 200                      | 5     | 5       | 200         | 400                       | 5      | 400        |
| Other.....             | 1,500                      | 5                        | 5     | 5       | 5           | 700                       | 200    | 400        |
| Total engineering..... | 55,300                     | 19,700                   | 300   | 1,500   | 17,900      | 5,400                     | 1,400  | 4,000      |
| Business and           |                            |                          |       |         |             |                           |        |            |
| Industry.....          | 44,100                     | 16,500                   | 200   | 800     | 15,400      | 3,900                     | 1,000  | 2,900      |
| Industry.....          | 43,800                     | 16,400                   | 200   | 800     | 15,400      | 3,900                     | 1,000  | 2,900      |
| Self employed....      | 300                        | 100                      | 5     | 5       | 100         | 5                         | 5      | 5          |
| Educ inst. total....   | 600                        | 200                      | 5     | 5       | 200         | 5                         | 5      | 5          |
| 4-yr college/univ.     | 500                        | 200                      | 5     | 5       | 200         | 5                         | 5      | 5          |
| Other.....             | 200                        | 5                        | 5     | 5       | 5           | 5                         | 5      | 5          |
| Nonprofit orgs.....    | 500                        | 100                      | 5     | 5       | 100         | 5                         | 5      | 5          |
| Federal Government..   | 3,700                      | 1,400                    | 100   | 400     | 1,000       | 300                       | 100    | 300        |
| State/local govt....   | 3,100                      | 700                      | 5     | 100     | 600         | 400                       | 100    | 200        |
| Other.....             | 3,200                      | 700                      | 5     | 100     | 600         | 800                       | 200    | 600        |
| No report.....         | 5                          | 5                        | 5     | 5       | 5           | 5                         | 5      | 5          |

See explanatory information and SOURCE at end of table.

Table B-10. 1988 science and engineering (S&E) bachelor's-degree recipients employed in S&E occupations, by field of degree, type of employer, and primary work activity: 1990

| Field of degree        | Primary work activity |                       |                               |       |                       |       |           |
|------------------------|-----------------------|-----------------------|-------------------------------|-------|-----------------------|-------|-----------|
|                        | Teaching              | Production/inspection | Reporting/stat work/computing | Sales | Professional services | Other | No report |
| Environ science.....   | S                     | 500                   | 100                           | S     | S                     | 700   | S         |
| Business and           |                       |                       |                               |       |                       |       |           |
| Industry.....          | S                     | 200                   | 100                           | S     | S                     | 400   | S         |
| Industry.....          | S                     | 200                   | 100                           | S     | S                     | 400   | S         |
| Educ inst, total....   | S                     | S                     | S                             | S     | S                     | S     | S         |
| 4-yr college/univ.     | S                     | S                     | S                             | S     | S                     | S     | S         |
| Other.....             | S                     | 100                   | 100                           | S     | S                     | S     | S         |
| Federal Government...  | S                     | 100                   | 100                           | S     | S                     | S     | S         |
| State/local govt....   | S                     | 100                   | 100                           | S     | S                     | 300   | S         |
| Other.....             | S                     | 100                   | 100                           | S     | S                     | S     | S         |
| Life sciences.....     | 2,400                 | 4,200                 | 1,100                         | 1,000 | 700                   | 2,100 | S         |
| Business and           |                       |                       |                               |       |                       |       |           |
| Industry.....          | S                     | 3,500                 | 800                           | 1,000 | 200                   | 1,400 | S         |
| Industry.....          | S                     | 3,100                 | 800                           | 1,000 | 200                   | 1,200 | S         |
| Self employed.....     | S                     | 400                   | S                             | S     | 200                   | 200   | S         |
| Educ inst, total....   | 2,100                 | S                     | S                             | S     | S                     | S     | S         |
| 4-yr college/univ.     | S                     | S                     | S                             | S     | S                     | S     | S         |
| Other.....             | 2,100                 | S                     | S                             | S     | S                     | S     | S         |
| Nonprofit orgs.....    | S                     | 300                   | S                             | S     | S                     | S     | S         |
| Federal Government...  | S                     | 100                   | 100                           | S     | S                     | 300   | S         |
| State/local govt....   | S                     | 100                   | 100                           | S     | S                     | 300   | S         |
| Other.....             | 200                   | 200                   | 300                           | S     | 400                   | S     | S         |
| Psychology.....        | 1,100                 | 1,200                 | 2,200                         | 500   | 1,100                 | 1,300 | S         |
| Business and           |                       |                       |                               |       |                       |       |           |
| Industry.....          | 200                   | 400                   | 1,300                         | 500   | S                     | 200   | S         |
| Industry.....          | 200                   | 400                   | 1,300                         | 500   | S                     | 200   | S         |
| Self employed.....     | S                     | S                     | 100                           | S     | S                     | S     | S         |
| Educ inst, total....   | S                     | 200                   | S                             | S     | S                     | S     | S         |
| 4-yr college/univ.     | S                     | 200                   | S                             | S     | S                     | S     | S         |
| Other.....             | 400                   | S                     | 200                           | S     | 800                   | 1,100 | S         |
| Nonprofit orgs.....    | S                     | S                     | S                             | S     | S                     | S     | S         |
| Federal Government...  | S                     | S                     | 600                           | S     | S                     | S     | S         |
| State/local govt....   | 200                   | S                     | S                             | S     | S                     | S     | S         |
| Other.....             | 200                   | 500                   | S                             | S     | 200                   | S     | S         |
| Social sciences.....   | 2,300                 | 1,200                 | 3,500                         | 1,300 | S                     | 2,100 | S         |
| Business and           |                       |                       |                               |       |                       |       |           |
| Industry.....          | 400                   | 800                   | 2,200                         | 1,000 | S                     | 900   | S         |
| Industry.....          | 400                   | 800                   | 2,200                         | 1,000 | S                     | 700   | S         |
| Self employed.....     | S                     | S                     | S                             | S     | S                     | 200   | S         |
| Educ inst, total....   | 1,000                 | S                     | 500                           | 200   | S                     | S     | S         |
| 4-yr college/univ.     | S                     | S                     | 500                           | 200   | S                     | S     | S         |
| Other.....             | 1,000                 | S                     | 200                           | S     | S                     | 200   | S         |
| Nonprofit orgs.....    | 200                   | S                     | 200                           | S     | S                     | 200   | S         |
| Federal Government...  | 300                   | 200                   | 500                           | 200   | S                     | 500   | S         |
| State/local govt....   | S                     | 200                   | 200                           | S     | S                     | 400   | S         |
| Other.....             | 300                   | S                     | S                             | S     | S                     | 600   | S         |
| Total engineering..... | 600                   | 15,100                | 5,600                         | 1,400 | S                     | 7,200 | 300       |
| Business and           |                       |                       |                               |       |                       |       |           |
| Industry.....          | 200                   | 11,900                | 4,400                         | 1,300 | S                     | 5,600 | 300       |
| Industry.....          | 200                   | 11,900                | 4,200                         | 1,300 | S                     | 5,500 | 300       |
| Self employed.....     | S                     | S                     | 100                           | S     | S                     | 100   | S         |
| Educ inst, total....   | 200                   | 200                   | S                             | S     | S                     | S     | S         |
| 4-yr college/univ.     | S                     | 200                   | S                             | S     | S                     | S     | S         |
| Other.....             | 100                   | S                     | S                             | S     | S                     | S     | S         |
| Nonprofit orgs.....    | S                     | 200                   | S                             | S     | S                     | 200   | S         |
| Federal Government...  | 100                   | 1,200                 | 400                           | S     | S                     | 300   | S         |
| State/local govt....   | S                     | 900                   | 600                           | 100   | S                     | 400   | S         |
| Other.....             | 200                   | 700                   | 200                           | S     | S                     | 700   | S         |
| No report.....         | S                     | S                     | S                             | S     | S                     | S     | S         |

KEY: S = Data suppressed for statistical reasons  
 NOTES: Because of rounding, components may not add to totals.  
 Data exclude those on full-time graduate students.  
 SOURCE: National Science Foundation/SRS, 1990 New Entrants Survey



Table B-11. 1988 science and engineering master's-degree recipients, by field of degree, sex, and graduate school status: 1990

| Field of degree and sex | Total  | Graduate school status |                   |            |       |           |
|-------------------------|--------|------------------------|-------------------|------------|-------|-----------|
|                         |        | Full-time student      | Part-time student | Nonstudent | Other | No report |
| Total, all fields.....  | 66,100 | 14,800                 | 5,400             | 45,200     | 600   | S         |
| Men.....                | 46,600 | 10,900                 | 3,800             | 31,400     | 400   | S         |
| Women.....              | 19,500 | 4,000                  | 1,500             | 13,800     | 200   | S         |
| Total sciences.....     | 45,200 | 11,100                 | 3,500             | 30,300     | 200   | S         |
| Men.....                | 28,000 | 7,600                  | 2,000             | 18,200     | 100   | S         |
| Women.....              | 17,200 | 3,500                  | 1,400             | 12,100     | 200   | S         |
| Physical sciences.....  | 4,600  | 1,800                  | 300               | 2,500      | 100   | S         |
| Men.....                | 3,600  | 1,500                  | 200               | 1,900      | S     | S         |
| Women.....              | 1,000  | 300                    | 100               | 600        | S     | S         |
| Chemistry.....          | 1,800  | 600                    | 100               | 1,100      | 100   | S         |
| Men.....                | 1,200  | 400                    | 100               | 700        | S     | S         |
| Women.....              | 700    | 200                    | 100               | 400        | S     | S         |
| Physics/astronomy.....  | 2,100  | 1,100                  | 100               | 900        | S     | S         |
| Men.....                | 1,900  | 1,000                  | 100               | 800        | S     | S         |
| Women.....              | 200    | 100                    | S                 | S          | S     | S         |
| Other phys sciences...  | 700    | 100                    | S                 | 500        | S     | S         |
| Men.....                | 600    | 100                    | S                 | 400        | S     | S         |
| Women.....              | 200    | S                      | S                 | 100        | S     | S         |
| Math/statistics.....    | 5,500  | 800                    | 400               | 4,200      | S     | S         |
| Men.....                | 3,200  | 600                    | 300               | 2,300      | S     | S         |
| Women.....              | 2,300  | 200                    | 200               | 1,900      | S     | S         |
| Computer science.....   | 10,800 | 1,300                  | 700               | 8,900      | S     | S         |
| Men.....                | 8,000  | 1,000                  | 500               | 6,500      | S     | S         |
| Women.....              | 2,800  | 300                    | 200               | 2,400      | S     | S         |
| Environ science.....    | 2,700  | 700                    | 100               | 1,900      | S     | S         |
| Men.....                | 2,000  | 500                    | 100               | 1,400      | S     | S         |
| Women.....              | 700    | 200                    | S                 | 500        | S     | S         |
| Life sciences.....      | 9,600  | 3,700                  | 800               | 5,000      | S     | S         |
| Men.....                | 5,200  | 2,500                  | 300               | 2,400      | S     | S         |
| Women.....              | 4,500  | 1,200                  | 500               | 2,700      | S     | S         |
| Biology.....            | 6,000  | 2,500                  | 500               | 3,000      | S     | S         |
| Men.....                | 2,500  | 1,500                  | 100               | 900        | S     | S         |
| Women.....              | 3,500  | 900                    | 400               | 2,100      | S     | S         |
| Agr science.....        | 3,600  | 1,200                  | 300               | 2,000      | S     | S         |
| Men.....                | 2,600  | 900                    | 200               | 1,500      | S     | S         |
| Women.....              | 1,000  | 300                    | 100               | 500        | S     | S         |
| Psychology.....         | 3,000  | 700                    | 500               | 1,800      | S     | S         |
| Men.....                | 1,100  | 300                    | 300               | 400        | S     | S         |
| Women.....              | 1,900  | 400                    | 200               | 1,300      | S     | S         |
| Social sciences.....    | 9,000  | 2,200                  | 700               | 6,000      | 100   | S         |
| Men.....                | 5,000  | 1,300                  | 400               | 3,200      | S     | S         |
| Women.....              | 3,900  | 900                    | 300               | 2,800      | S     | S         |
| Economics.....          | 2,200  | 500                    | 100               | 1,500      | S     | S         |
| Men.....                | 1,700  | 500                    | 100               | 1,100      | S     | S         |
| Women.....              | 500    | 100                    | S                 | 400        | S     | S         |
| Socio/anthro.....       | 1,300  | 400                    | 200               | 700        | S     | S         |
| Men.....                | 700    | 300                    | 100               | 300        | S     | S         |
| Women.....              | 700    | 100                    | 200               | 400        | S     | S         |
| Other soc sciences....  | 5,500  | 1,300                  | 400               | 3,800      | S     | S         |
| Men.....                | 2,700  | 600                    | 300               | 1,800      | S     | S         |
| Women.....              | 2,800  | 700                    | 100               | 1,900      | S     | S         |

See explanatory information and SOURCE at end of table.

Table B-11. 1988 science and engineering master's-degree recipients, by field of degree, sex, and graduate school status: 1990

| Field of degree and sex | Total  | Graduate school status |                   |            |       |           |
|-------------------------|--------|------------------------|-------------------|------------|-------|-----------|
|                         |        | Full-time student      | Part-time student | Nonstudent | Other | No report |
| Total engineering.....  | 20,900 | 3,700                  | 1,900             | 14,900     | 300   | S         |
| Men.....                | 18,600 | 3,200                  | 1,800             | 13,200     | 300   | S         |
| Women.....              | 2,300  | 500                    | 100               | 1,700      | S     | S         |
| Aero/astro.....         | 800    | 100                    | S                 | 600        | S     | S         |
| Men.....                | 700    | 100                    | S                 | 600        | S     | S         |
| Women.....              | 100    | S                      | S                 | S          | S     | S         |
| Chemical.....           | 1,100  | 300                    | 100               | 700        | S     | S         |
| Men.....                | 900    | 200                    | 100               | 600        | S     | S         |
| Women.....              | 200    | 100                    | S                 | 100        | S     | S         |
| Civil.....              | 2,200  | 200                    | 200               | 1,700      | S     | S         |
| Men.....                | 1,900  | 200                    | 200               | 1,500      | S     | S         |
| Women.....              | 300    | S                      | S                 | 300        | S     | S         |
| Elect/electron.....     | 6,600  | 1,300                  | 700               | 4,300      | 300   | S         |
| Men.....                | 6,200  | 1,200                  | 700               | 4,100      | 300   | S         |
| Women.....              | 300    | 100                    | S                 | 200        | S     | S         |
| Industrial.....         | 1,400  | 100                    | 100               | 1,200      | S     | S         |
| Men.....                | 1,200  | 100                    | 100               | 1,000      | S     | S         |
| Women.....              | 200    | S                      | S                 | 200        | S     | S         |
| Materials.....          | 900    | 300                    | S                 | 500        | S     | S         |
| Men.....                | 600    | 300                    | S                 | 400        | S     | S         |
| Women.....              | 200    | 100                    | S                 | 200        | S     | S         |
| Mechanical.....         | 4,200  | 700                    | 500               | 3,000      | S     | S         |
| Men.....                | 3,800  | 600                    | 500               | 2,700      | S     | S         |
| Women.....              | 400    | 100                    | S                 | 300        | S     | S         |
| Mining.....             | 200    | S                      | S                 | 200        | S     | S         |
| Men.....                | 200    | S                      | S                 | 100        | S     | S         |
| Women.....              | 100    | S                      | S                 | S          | S     | S         |
| Nuclear.....            | 300    | 200                    | S                 | 100        | S     | S         |
| Men.....                | 300    | 200                    | S                 | 100        | S     | S         |
| Women.....              | S      | S                      | S                 | S          | S     | S         |
| Petroleum.....          | 200    | S                      | S                 | 200        | S     | S         |
| Men.....                | 200    | S                      | S                 | 100        | S     | S         |
| Women.....              | S      | S                      | S                 | S          | S     | S         |
| Other engineering.....  | 3,100  | 500                    | 300               | 2,300      | S     | S         |
| Men.....                | 2,500  | 400                    | 200               | 1,900      | S     | S         |
| Women.....              | 500    | 100                    | 100               | 400        | S     | S         |

KEY: S - Data suppressed for statistical reasons

NOTES: Because of rounding, components may not add to totals.

SOURCE: National Science Foundation/SRS, 1990 New Entrants Survey

Table 8-12. 1988 science and engineering (S&E) master's-degree recipients, by field of degree, employment status, and sex: 1990

| Field of degree          | Total population |        |        | Total employed |        |        | Employed in S&E occupation |        |        |
|--------------------------|------------------|--------|--------|----------------|--------|--------|----------------------------|--------|--------|
|                          | Total            | Men    | Women  | Total          | Men    | Women  | Total                      | Men    | Women  |
| Total, all fields.....   | 66,200           | 46,600 | 19,500 | 58,500         | 41,700 | 16,700 | 51,900                     | 37,600 | 14,300 |
| Total sciences.....      | 45,300           | 28,000 | 17,200 | 39,700         | 25,000 | 14,600 | 33,500                     | 21,100 | 12,300 |
| Physical sciences.....   | 4,600            | 3,600  | 1,000  | 4,000          | 3,200  | 900    | 3,700                      | 2,900  | 800    |
| Chemistry.....           | 1,800            | 1,200  | 700    | 1,600          | 1,000  | 600    | 1,500                      | 900    | 600    |
| Physics/astronomy.....   | 2,100            | 1,900  | 200    | 1,800          | 1,600  | 100    | 1,700                      | 1,500  | 100    |
| Other phys sciences..... | 700              | 600    | 200    | 700            | 500    | 100    | 600                        | 400    | 100    |
| Math/statistics.....     | 5,500            | 3,200  | 2,300  | 5,200          | 2,900  | 2,200  | 4,500                      | 2,700  | 1,800  |
| Computer science.....    | 10,900           | 8,000  | 2,800  | 10,300         | 7,600  | 2,600  | 9,100                      | 6,600  | 2,500  |
| Environ science.....     | 2,700            | 2,000  | 700    | 2,400          | 1,800  | 600    | 2,400                      | 1,900  | 500    |
| Life sciences.....       | 9,600            | 5,200  | 4,500  | 7,500          | 3,900  | 3,700  | 7,300                      | 3,900  | 3,400  |
| Biology.....             | 6,000            | 2,500  | 3,500  | 4,500          | 1,600  | 2,900  | 4,500                      | 2,000  | 2,600  |
| Agr science.....         | 3,600            | 2,600  | 1,000  | 3,000          | 2,200  | 800    | 2,700                      | 1,900  | 800    |
| Psychology.....          | 3,000            | 1,100  | 1,900  | 2,800          | 900    | 1,800  | 1,900                      | 600    | 1,300  |
| Social sciences.....     | 9,000            | 5,000  | 3,900  | 7,600          | 4,600  | 3,000  | 4,600                      | 2,600  | 2,000  |
| Economics.....           | 2,200            | 1,700  | 500    | 2,100          | 1,700  | 400    | 800                        | 600    | 200    |
| Socio/anthro.....        | 1,300            | 700    | 700    | 1,100          | 500    | 600    | 600                        | 300    | 300    |
| Other soc sciences.....  | 5,500            | 2,700  | 2,800  | 4,500          | 2,500  | 2,000  | 3,100                      | 1,700  | 1,500  |
| Total engineering.....   | 20,900           | 18,600 | 2,300  | 18,700         | 16,700 | 2,000  | 18,400                     | 16,400 | 2,000  |
| Aero/astro.....          | 800              | 700    | 100    | 700            | 700    | 5      | 600                        | 600    | 100    |
| Chemical.....            | 1,100            | 900    | 200    | 1,000          | 800    | 100    | 1,000                      | 800    | 200    |
| Civil.....               | 2,200            | 1,900  | 300    | 2,000          | 1,800  | 300    | 2,000                      | 1,700  | 300    |
| Elect/electron.....      | 6,600            | 6,200  | 300    | 5,800          | 5,500  | 300    | 6,100                      | 5,800  | 300    |
| Industrial.....          | 1,400            | 1,200  | 200    | 1,300          | 1,100  | 200    | 900                        | 800    | 200    |
| Materials.....           | 900              | 600    | 200    | 700            | 500    | 200    | 800                        | 600    | 200    |
| Mechanical.....          | 4,200            | 3,800  | 400    | 3,900          | 3,600  | 300    | 3,700                      | 3,400  | 300    |
| Mining.....              | 200              | 200    | 100    | 200            | 200    | 100    | 200                        | 200    | 5      |
| Nuclear.....             | 300              | 300    | 5      | 200            | 100    | 5      | 300                        | 300    | 5      |
| Petroleum.....           | 200              | 200    | 5      | 200            | 200    | 5      | 200                        | 200    | 5      |
| Other engineering.....   | 3,100            | 2,500  | 500    | 2,800          | 2,400  | 500    | 2,700                      | 2,300  | 400    |

See explanatory information and SOURCE at end of table.

Table B-12. 1988 science and engineering (S&E) master's-degree recipients, by field of degree, employment status, and sex: 1990

| Field of degree        | Unemployed |     |       | Outside labor force |       |       |
|------------------------|------------|-----|-------|---------------------|-------|-------|
|                        | Total      | Men | Women | Total               | Men   | Women |
| Total, all fields..... | 1,200      | 800 | 400   | 6,500               | 4,000 | 2,500 |
| Total sciences.....    | 700        | 400 | 400   | 4,800               | 2,600 | 2,200 |
| Physical sciences..... | 100        | S   | S     | 500                 | 400   | 100   |
| Chemistry.....         | S          | S   | S     | 200                 | 100   | 100   |
| Physics/astronomy..... | S          | S   | S     | 300                 | 300   | S     |
| Other phys sciences... | S          | S   | S     | S                   | S     | S     |
| Math/statistics.....   | S          | S   | S     | 300                 | 200   | 100   |
| Computer science.....  | 200        | 100 | 100   | 500                 | 300   | 200   |
| Environ science.....   | S          | S   | S     | 300                 | 100   | 100   |
| Life sciences.....     | 100        | 100 | 100   | 2,000               | 1,200 | 700   |
| Biology.....           | 100        | S   | 100   | 1,400               | 900   | 500   |
| Agr science.....       | 100        | 100 | S     | 500                 | 300   | 200   |
| Psychology.....        | 100        | S   | 100   | 100                 | 100   | S     |
| Social sciences.....   | 100        | 100 | 100   | 1,200               | 300   | 900   |
| Economics.....         | S          | S   | S     | 100                 | S     | 100   |
| Socio/anthro.....      | S          | S   | S     | 300                 | 200   | 100   |
| Other soc sciences.... | 100        | 100 | 100   | 800                 | 200   | 700   |
| Total engineering..... | 500        | 500 | S     | 1,700               | 1,400 | 300   |
| Aero/astro.....        | S          | S   | S     | 100                 | 100   | S     |
| Chemical.....          | S          | S   | S     | 100                 | 100   | 100   |
| Civil.....             | S          | S   | S     | 100                 | 100   | S     |
| Elect/electron.....    | 200        | 200 | S     | 600                 | 600   | S     |
| Industrial.....        | 100        | 100 | S     | 100                 | 100   | S     |
| Materials.....         | 100        | 100 | S     | 100                 | 100   | S     |
| Mechanical.....        | S          | S   | S     | 200                 | 100   | 100   |
| Mining.....            | S          | S   | S     | S                   | S     | S     |
| Nuclear.....           | S          | S   | S     | 100                 | 100   | S     |
| Petroleum.....         | S          | S   | S     | S                   | S     | S     |
| Other engineering..... | S          | S   | S     | 200                 | 200   | 100   |

KEY: S = Data suppressed for statistical reasons

NOTES: Because of rounding, components may not add to totals.

SOURCE: National Science Foundation/SRS, 1990 New Entrants Survey

Table B-13. 1988 science and engineering (S&E) master's-degree recipients, by field of degree, employment status, and racial/ethnic group: 1990

| Field of degree         | Total population |        |       |       |                 |             | Total employed |        |       |       |                 |          |
|-------------------------|------------------|--------|-------|-------|-----------------|-------------|----------------|--------|-------|-------|-----------------|----------|
|                         | Total            | White  | Black | Asian | Native American | Hispanic 1/ | Total          | White  | Black | Asian | Native American | Hispanic |
| Total, all fields.....  | 66,200           | 49,000 | 2,200 | 7,800 | 300             | 2,000       | 58,500         | 43,800 | 2,000 | 6,300 | 300             | 1,900    |
| Total sciences.....     | 45,300           | 34,500 | 1,600 | 4,100 | 300             | 1,200       | 39,700         | 30,500 | 1,400 | 3,300 | 300             | 1,100    |
| Physical sciences.....  | 4,600            | 3,700  | 100   | 500   | S               | 100         | 4,000          | 3,300  | 100   | 400   | S               | 100      |
| Chemistry.....          | 1,800            | 1,500  | S     | 200   | S               | S           | 1,600          | 1,300  | S     | 200   | S               | S        |
| Physics/astronomy.....  | 2,100            | 1,700  | S     | 200   | S               | 100         | 1,800          | 1,500  | S     | 100   | S               | 100      |
| Other phys sciences.... | 700              | 600    | S     | 100   | S               | S           | 700            | 600    | S     | S     | S               | S        |
| Math/statistics.....    | 5,500            | 4,400  | 200   | 700   | S               | 200         | 5,200          | 4,300  | 100   | 500   | S               | 100      |
| Computer science.....   | 10,900           | 7,400  | 400   | 1,900 | 100             | 200         | 10,300         | 7,100  | 400   | 1,600 | 100             | 200      |
| Environ science.....    | 2,700            | 2,400  | S     | 100   | S               | 100         | 2,400          | 2,100  | S     | 100   | S               | 100      |
| Life sciences.....      | 9,600            | 7,100  | 500   | 400   | 100             | 300         | 7,500          | 5,400  | 400   | 400   | 100             | 300      |
| Biology.....            | 6,000            | 4,300  | 400   | 200   | 100             | 200         | 4,500          | 3,100  | 400   | 200   | 100             | 200      |
| Agr science.....        | 3,600            | 2,800  | 100   | 200   | S               | 200         | 3,000          | 2,300  | 100   | 200   | S               | 200      |
| Psychology.....         | 3,000            | 2,600  | 100   | 100   | S               | S           | 2,800          | 2,400  | S     | 100   | S               | S        |
| Social sciences.....    | 9,000            | 6,900  | 300   | 500   | 100             | 500         | 7,600          | 5,800  | 300   | 400   | 100             | 400      |
| Economics.....          | 2,200            | 1,600  | S     | 200   | S               | S           | 2,100          | 1,600  | S     | 100   | S               | S        |
| Socio/anthro.....       | 1,300            | 1,200  | S     | S     | S               | S           | 1,100          | 900    | S     | S     | S               | S        |
| Other soc sciences....  | 5,500            | 4,200  | 300   | 300   | S               | 400         | 4,500          | 3,300  | 300   | 200   | S               | 300      |
| Total engineering.....  | 20,900           | 14,400 | 700   | 3,700 | S               | 800         | 18,700         | 13,400 | 600   | 3,000 | S               | 700      |
| Aero/astro.....         | 800              | 700    | S     | S     | S               | S           | 700            | 600    | S     | S     | S               | S        |
| Chemical.....           | 1,100            | 800    | S     | 200   | S               | 100         | 1,000          | 700    | S     | 200   | S               | S        |
| Civil.....              | 2,200            | 1,500  | S     | 400   | S               | 100         | 2,000          | 1,500  | S     | 400   | S               | 100      |
| Elect/electron.....     | 6,600            | 4,300  | 300   | 1,300 | S               | 200         | 5,800          | 3,900  | 300   | 1,000 | S               | 200      |
| Industrial.....         | 1,400            | 1,000  | 100   | 200   | S               | 100         | 1,300          | 1,000  | S     | 200   | S               | 100      |
| Materials.....          | 900              | 500    | S     | 300   | S               | 200         | 700            | 400    | S     | 200   | S               | 200      |
| Mechanical.....         | 4,200            | 2,800  | 100   | 800   | S               | 200         | 3,900          | 2,700  | 100   | 600   | S               | 200      |
| Mining.....             | 200              | 200    | S     | S     | S               | S           | 200            | 200    | S     | S     | S               | S        |
| Nuclear.....            | 300              | 100    | S     | S     | S               | S           | 200            | 100    | S     | S     | S               | S        |
| Petroleum.....          | 200              | 200    | S     | S     | S               | S           | 200            | 200    | S     | S     | S               | S        |
| Other engineering.....  | 3,100            | 2,400  | S     | 400   | S               | 100         | 2,800          | 2,200  | S     | 300   | S               | 100      |

| Field of degree         | Employed in S&E occupation |        |       |       |                 |             | Unemployed |       |       |       |                 |             |
|-------------------------|----------------------------|--------|-------|-------|-----------------|-------------|------------|-------|-------|-------|-----------------|-------------|
|                         | Total                      | White  | Black | Asian | Native American | Hispanic 1/ | Total      | White | Black | Asian | Native American | Hispanic 1/ |
| Total, all fields.....  | 51,900                     | 39,000 | 1,400 | 6,000 | 200             | 1,400       | 1,200      | 800   | 100   | 200   | S               | 100         |
| Total sciences.....     | 33,500                     | 25,900 | 900   | 3,200 | 200             | 800         | 700        | 400   | S     | 200   | S               | 100         |
| Physical sciences.....  | 3,700                      | 3,100  | 100   | 300   | S               | 100         | 100        | S     | S     | S     | S               | S           |
| Chemistry.....          | 1,500                      | 1,200  | S     | 200   | S               | S           | S          | S     | S     | S     | S               | S           |
| Physics/astronomy.....  | 1,700                      | 1,400  | S     | 100   | S               | 100         | S          | S     | S     | S     | S               | S           |
| Other phys sciences.... | 600                        | 400    | S     | S     | S               | S           | S          | S     | S     | S     | S               | S           |
| Math/statistics.....    | 4,500                      | 3,600  | 100   | 400   | S               | 100         | S          | S     | S     | S     | S               | S           |
| Computer science.....   | 9,100                      | 6,100  | 400   | 1,600 | 100             | 100         | 200        | 100   | S     | 100   | S               | S           |
| Environ science.....    | 2,400                      | 2,100  | S     | 100   | S               | 100         | S          | S     | S     | S     | S               | S           |
| Life sciences.....      | 7,300                      | 5,700  | 200   | 300   | 100             | 300         | 100        | 100   | S     | S     | S               | S           |
| Biology.....            | 4,500                      | 3,600  | 100   | 200   | 100             | 100         | 100        | 100   | S     | S     | S               | S           |
| Agr science.....        | 2,700                      | 2,100  | 100   | 200   | S               | 200         | 100        | 100   | S     | S     | S               | S           |
| Psychology.....         | 1,900                      | 1,800  | S     | S     | S               | S           | 100        | 100   | S     | S     | S               | S           |
| Social sciences.....    | 4,600                      | 3,500  | 100   | 300   | S               | 200         | 100        | S     | S     | S     | S               | 100         |
| Economics.....          | 800                        | 600    | S     | 100   | S               | S           | S          | S     | S     | S     | S               | S           |
| Socio/anthro.....       | 600                        | 600    | S     | S     | S               | S           | S          | S     | S     | S     | S               | S           |
| Other soc sciences....  | 3,100                      | 2,300  | 100   | 200   | S               | 100         | 100        | S     | S     | S     | S               | 100         |
| Total engineering.....  | 18,400                     | 13,000 | 500   | 2,800 | S               | 700         | 500        | 400   | 100   | S     | S               | S           |
| Aero/astro.....         | 600                        | 500    | S     | S     | S               | S           | S          | S     | S     | S     | S               | S           |
| Chemical.....           | 1,000                      | 700    | S     | 200   | S               | S           | S          | S     | S     | S     | S               | S           |
| Civil.....              | 2,000                      | 1,400  | S     | 400   | S               | 100         | S          | S     | S     | S     | S               | S           |
| Elect/electron.....     | 6,100                      | 4,100  | 300   | 1,000 | S               | 200         | 200        | 200   | S     | S     | S               | S           |
| Industrial.....         | 900                        | 700    | 100   | 100   | S               | 100         | 100        | 100   | 100   | S     | S               | S           |
| Materials.....          | 800                        | 500    | S     | 200   | S               | 200         | 100        | 100   | S     | S     | S               | S           |
| Mechanical.....         | 3,700                      | 2,600  | 100   | 600   | S               | 200         | 200        | 100   | S     | S     | S               | S           |
| Mining.....             | 200                        | 200    | S     | S     | S               | S           | S          | S     | S     | S     | S               | S           |
| Nuclear.....            | 300                        | 100    | S     | S     | S               | S           | S          | S     | S     | S     | S               | S           |
| Petroleum.....          | 200                        | 100    | S     | S     | S               | S           | S          | S     | S     | S     | S               | S           |
| Other engineering.....  | 2,700                      | 2,100  | S     | 300   | S               | 100         | S          | S     | S     | S     | S               | S           |

See explanatory information and SOURCE at end of table.

Table B-13. 1988 science and engineering (S&E) master's-degree recipients, by field of degree, employment status, and racial/ethnic group: 1990

| Field of degree          | Outside labor force |       |       |       |                 |                |
|--------------------------|---------------------|-------|-------|-------|-----------------|----------------|
|                          | Total               | White | Black | Asian | Native American | Hispanic<br>1/ |
| Total, all fields.....   | 6,500               | 4,300 | 100   | 1,300 | S               | S              |
| Total sciences.....      | 4,800               | 3,600 | 100   | 600   | S               | S              |
| Physical sciences.....   | 500                 | 400   | S     | 100   | S               | S              |
| Chemistry.....           | 200                 | 200   | S     | S     | S               | S              |
| Physics/astronomy.....   | 300                 | 200   | S     | 100   | S               | S              |
| Other phys sciences..... | S                   | S     | S     | S     | S               | S              |
| Math/statistics.....     | 300                 | 100   | S     | 200   | S               | S              |
| Computer science.....    | 500                 | 300   | S     | 200   | S               | S              |
| Environ science.....     | 300                 | 200   | S     | S     | S               | S              |
| Life sciences.....       | 2,000               | 1,600 | S     | 100   | S               | S              |
| Biology.....             | 1,400               | 1,200 | S     | S     | S               | S              |
| Agr science.....         | 500                 | 400   | S     | S     | S               | S              |
| Psychology.....          | 100                 | 100   | S     | S     | S               | S              |
| Social sciences.....     | 1,200               | 1,000 | S     | 100   | S               | S              |
| Economics.....           | 100                 | S     | S     | S     | S               | S              |
| Socio/anthro.....        | 300                 | 200   | S     | S     | S               | S              |
| Other soc sciences.....  | 800                 | 800   | S     | S     | S               | S              |
| Total engineering.....   | 1,700               | 700   | S     | 700   | S               | S              |
| Aero/astro.....          | 100                 | S     | S     | S     | S               | S              |
| Chemical.....            | 100                 | 100   | S     | S     | S               | S              |
| Civil.....               | 100                 | S     | S     | S     | S               | S              |
| Elect/electron.....      | 600                 | 200   | S     | 300   | S               | S              |
| Industrial.....          | 100                 | S     | S     | S     | S               | S              |
| Materials.....           | 100                 | 100   | S     | S     | S               | S              |
| Mechanical.....          | 200                 | S     | S     | 200   | S               | S              |
| Mining.....              | S                   | S     | S     | S     | S               | S              |
| Nuclear.....             | 100                 | S     | S     | S     | S               | S              |
| Petroleum.....           | S                   | S     | S     | S     | S               | S              |
| Other engineering.....   | 200                 | 200   | S     | S     | S               | S              |

1/ Includes members of all racial groups

KEY: S = Data suppressed for statistical reasons

NOTES: Components will not add to totals because (a) racial and ethnic categories are not mutually exclusive, (b) total includes "other" and "no report," and (c) both components and totals have been rounded.

SOURCE: National Science Foundation/SRS, 1990 New Entrants Survey



Table B-14. 1988 science and engineering (S&E) master's-degree recipients,  
by field of degree, employment status, and sex: 1990

| Field of degree        | Total population |        |        | Total employed |        |        | Employed in S&E occupation |        |        |
|------------------------|------------------|--------|--------|----------------|--------|--------|----------------------------|--------|--------|
|                        | Total            | Men    | Women  | Total          | Men    | Women  | Total                      | Men    | Women  |
| Total, all fields..... | 51,300           | 35,700 | 15,500 | 48,800         | 34,700 | 14,000 | 39,800                     | 28,700 | 11,000 |
| Total sciences.....    | 34,100           | 20,400 | 13,700 | 32,300         | 19,900 | 12,300 | 24,600                     | 15,200 | 9,400  |
| Physical sciences..... | 2,800            | 2,100  | 700    | 2,700          | 2,100  | 600    | 2,400                      | 1,900  | 600    |
| Chemistry.....         | 1,300            | 700    | 500    | 1,200          | 700    | 500    | 1,100                      | 600    | 400    |
| Physics/astronomy..... | 1,000            | 900    | S      | 1,000          | 900    | S      | 900                        | 900    | S      |
| Other phys sciences... | 600              | 500    | 100    | 600            | 500    | 100    | 500                        | 400    | 100    |
| Math/statistics.....   | 4,700            | 2,600  | 2,100  | 4,600          | 2,600  | 2,000  | 3,800                      | 2,200  | 1,600  |
| Computer science.....  | 9,600            | 7,000  | 2,600  | 9,300          | 6,900  | 2,400  | 8,000                      | 5,800  | 2,200  |
| Environ science.....   | 2,000            | 1,500  | 500    | 2,000          | 1,500  | 500    | 1,900                      | 1,400  | 400    |
| Life sciences.....     | 5,900            | 2,700  | 3,200  | 5,600          | 2,600  | 3,000  | 4,500                      | 1,900  | 2,600  |
| Biology.....           | 3,500            | 1,000  | 2,500  | 3,400          | 1,000  | 2,400  | 2,800                      | 700    | 2,100  |
| Agr science.....       | 2,400            | 1,700  | 700    | 2,200          | 1,600  | 600    | 1,700                      | 1,200  | 500    |
| Psychology.....        | 2,300            | 700    | 1,500  | 2,100          | 700    | 1,400  | 1,300                      | 300    | 1,000  |
| Social sciences.....   | 6,800            | 3,700  | 3,100  | 5,900          | 3,600  | 2,300  | 2,600                      | 1,600  | 1,000  |
| Economics.....         | 1,600            | 1,200  | 400    | 1,600          | 1,200  | 400    | 400                        | 200    | 200    |
| Socio/anthro.....      | 1,000            | 400    | 600    | 900            | 400    | 500    | 400                        | 100    | 300    |
| Other soc sciences.... | 4,200            | 2,100  | 2,100  | 3,400          | 2,000  | 1,400  | 1,800                      | 1,300  | 500    |
| Total engineering..... | 17,200           | 15,300 | 1,900  | 16,500         | 14,800 | 1,800  | 15,100                     | 13,500 | 1,600  |
| Aero/astro.....        | 700              | 600    | S      | 600            | 600    | S      | 500                        | 500    | S      |
| Chemical.....          | 800              | 700    | 100    | 800            | 700    | 100    | 800                        | 700    | 100    |
| Civil.....             | 1,900            | 1,700  | 300    | 1,900          | 1,600  | 300    | 1,800                      | 1,600  | 300    |
| Elect/electron.....    | 5,300            | 5,000  | 200    | 5,100          | 4,800  | 200    | 4,800                      | 4,500  | 200    |
| Industrial.....        | 1,300            | 1,100  | 200    | 1,200          | 1,000  | 200    | 800                        | 600    | 200    |
| Materials.....         | 500              | 400    | 200    | 500            | 300    | 200    | 500                        | 300    | 100    |
| Mechanical.....        | 3,500            | 3,200  | 300    | 3,500          | 3,200  | 300    | 3,300                      | 3,100  | 200    |
| Mining.....            | 200              | 200    | S      | 200            | 100    | S      | 200                        | 100    | S      |
| Nuclear.....           | 100              | 100    | S      | 100            | 100    | S      | 100                        | 100    | S      |
| Petroleum.....         | 200              | 200    | S      | 200            | 200    | S      | 200                        | 200    | S      |
| Other engineering..... | 2,600            | 2,200  | 500    | 2,500          | 2,100  | 400    | 2,300                      | 1,900  | 400    |

See explanatory information and SOURCE at end of table.

Table B-14. 1988 science and engineering master's-degree recipients, by field of degree, employment status, and sex: 1990

| Field of degree        | Unemployed |     |       | Outside labor force |     |       |
|------------------------|------------|-----|-------|---------------------|-----|-------|
|                        | Total      | Men | Women | Total               | Men | Women |
| Total, all fields..... | 800        | 500 | 400   | 1,600               | 500 | 1,100 |
| Total sciences.....    | 600        | 200 | 400   | 1,200               | 200 | 1,100 |
| Physical sciences..... | S          | S   | S     | 100                 | S   | S     |
| Chemistry.....         | S          | S   | S     | S                   | S   | S     |
| Physics/astronomy..... | S          | S   | S     | S                   | S   | S     |
| Other phys sciences... | S          | S   | S     | S                   | S   | S     |
| Math/statistics.....   | S          | S   | S     | 100                 | S   | 100   |
| Computer science.....  | 200        | 100 | 100   | 100                 | S   | 100   |
| Environ science.....   | S          | S   | S     | S                   | S   | S     |
| Life sciences.....     | 100        | 100 | 100   | 200                 | S   | 200   |
| Biology.....           | 100        | S   | 100   | 100                 | S   | 100   |
| Agr science.....       | 100        | 100 | S     | 100                 | S   | 100   |
| Psychology.....        | 100        | S   | 100   | S                   | S   | S     |
| Social sciences.....   | 100        | S   | 100   | 800                 | 100 | 700   |
| Economics.....         | S          | S   | S     | S                   | S   | S     |
| Socio/anthro.....      | S          | S   | S     | 100                 | S   | 100   |
| Other soc sciences.... | 100        | S   | 100   | 700                 | 100 | 600   |
| Total engineering..... | 300        | 200 | S     | 400                 | 300 | 100   |
| Aero/astro.....        | S          | S   | S     | S                   | S   | S     |
| Chemical.....          | S          | S   | S     | S                   | S   | S     |
| Civil.....             | S          | S   | S     | S                   | S   | S     |
| Elect/electron.....    | 100        | 100 | S     | 200                 | 200 | S     |
| Industrial.....        | 100        | 100 | S     | S                   | S   | S     |
| Materials.....         | S          | S   | S     | S                   | S   | S     |
| Mechanical.....        | S          | S   | S     | S                   | S   | S     |
| Mining.....            | S          | S   | S     | S                   | S   | S     |
| Nuclear.....           | S          | S   | S     | S                   | S   | S     |
| Petroleum.....         | S          | S   | S     | S                   | S   | S     |
| Other engineering..... | S          | S   | S     | 100                 | 100 | S     |

KEY: S = Data suppressed for statistical reasons

NOTES: Because of rounding, components may not add to totals.  
Data exclude those on full-time graduate students.

SOURCE: National Science Foundation/SRS, 1990 New Entrants Survey

Table B-15. 1988 science and engineering (S&E) master's degree-recipients, by field of degree, employment status, and racial/ethnic group: 1990

| Field of degree        | Total population |        |       |       |                 |             |
|------------------------|------------------|--------|-------|-------|-----------------|-------------|
|                        | Total            | White  | Black | Asian | Native American | Hispanic 1/ |
| Total, all fields..... | 51,300           | 39,200 | 1,600 | 5,500 | 100             | 1,500       |
| Total sciences.....    | 34,100           | 26,700 | 900   | 3,000 | 100             | 900         |
| Physical sciences..... | 2,800            | 2,400  | 100   | 200   | S               | S           |
| Chemistry.....         | 1,300            | 1,000  | S     | 100   | S               | S           |
| Physics/astronomy..... | 1,000            | 900    | S     | 100   | S               | S           |
| Other phys sciences... | 600              | 500    | S     | S     | S               | S           |
| Math/statistics.....   | 4,700            | 3,900  | 100   | 400   | S               | 100         |
| Computer science.....  | 9,600            | 6,700  | 300   | 1,500 | S               | 200         |
| Environ science.....   | 2,000            | 1,800  | S     | S     | S               | S           |
| Life sciences.....     | 5,900            | 4,800  | 100   | 300   | S               | 200         |
| Biology.....           | 3,500            | 3,000  | 100   | 200   | S               | 100         |
| Agr science.....       | 2,400            | 1,800  | 100   | 200   | S               | 100         |
| Psychology.....        | 2,300            | 2,000  | S     | 100   | S               | S           |
| Social sciences.....   | 6,800            | 5,100  | 300   | 400   | 100             | 400         |
| Economics.....         | 1,600            | 1,200  | S     | 100   | S               | S           |
| Socio/anthro.....      | 1,000            | 800    | S     | S     | S               | S           |
| Other soc sciences.... | 4,200            | 3,100  | 200   | 200   | S               | 300         |
| Total engineering..... | 17,200           | 12,500 | 700   | 2,500 | S               | 600         |
| Aero/astro.....        | 700              | 600    | S     | S     | S               | S           |
| Chemical.....          | 800              | 600    | S     | 100   | S               | S           |
| Civil.....             | 1,900            | 1,400  | S     | 300   | S               | 100         |
| Elect/electron.....    | 5,300            | 3,500  | 300   | 1,000 | S               | 100         |
| Industrial.....        | 1,300            | 1,000  | 100   | 100   | S               | 100         |
| Materials.....         | 500              | 300    | S     | 200   | S               | S           |
| Mechanical.....        | 3,500            | 2,500  | 100   | 400   | S               | 100         |
| Mining.....            | 200              | 200    | S     | S     | S               | S           |
| Nuclear.....           | 100              | 100    | S     | S     | S               | S           |
| Petroleum.....         | 200              | 200    | S     | S     | S               | S           |
| Other engineering..... | 2,600            | 2,100  | S     | 200   | S               | 100         |

| Field of degree        | Total employed |        |       |       |                 |             |
|------------------------|----------------|--------|-------|-------|-----------------|-------------|
|                        | Total          | White  | Black | Asian | Native American | Hispanic 1/ |
| Total, all fields..... | 48,800         | 37,400 | 1,500 | 5,100 | 100             | 1,500       |
| Total sciences.....    | 32,300         | 25,200 | 900   | 2,700 | 100             | 900         |
| Physical sciences..... | 2,700          | 2,400  | 100   | 200   | S               | S           |
| Chemistry.....         | 1,200          | 900    | S     | 100   | S               | S           |
| Physics/astronomy..... | 1,000          | 900    | S     | 100   | S               | S           |
| Other phys sciences... | 600            | 500    | S     | S     | S               | S           |
| Math/statistics.....   | 4,600          | 3,800  | 100   | 400   | S               | 100         |
| Computer science.....  | 9,300          | 6,500  | 300   | 1,400 | S               | 200         |
| Environ science.....   | 2,000          | 1,800  | S     | S     | S               | S           |
| Life sciences.....     | 5,600          | 4,500  | 100   | 300   | S               | 200         |
| Biology.....           | 3,400          | 2,800  | S     | 200   | S               | 100         |
| Agr science.....       | 2,200          | 1,700  | 100   | 200   | S               | 100         |
| Psychology.....        | 2,100          | 1,900  | S     | 100   | S               | S           |
| Social sciences.....   | 5,900          | 4,400  | 300   | 300   | 100             | 400         |
| Economics.....         | 1,600          | 1,200  | S     | 100   | S               | S           |
| Socio/anthro.....      | 900            | 800    | S     | S     | S               | S           |
| Other soc sciences.... | 3,400          | 2,500  | 200   | 100   | S               | 300         |
| Total engineering..... | 16,500         | 12,100 | 600   | 2,400 | S               | 600         |
| Aero/astro.....        | 600            | 600    | S     | S     | S               | S           |
| Chemical.....          | 800            | 600    | S     | 100   | S               | S           |
| Civil.....             | 1,900          | 1,400  | S     | 300   | S               | 100         |
| Elect/electron.....    | 5,100          | 3,400  | 300   | 1,000 | S               | 100         |
| Industrial.....        | 1,200          | 1,000  | S     | 100   | S               | 100         |
| Materials.....         | 500            | 300    | S     | 200   | S               | S           |
| Mechanical.....        | 3,500          | 2,500  | 100   | 400   | S               | 100         |
| Mining.....            | 200            | 200    | S     | S     | S               | S           |
| Nuclear.....           | 100            | 100    | S     | S     | S               | S           |
| Petroleum.....         | 200            | 200    | S     | S     | S               | S           |
| Other engineering..... | 2,500          | 2,100  | S     | 200   | S               | 100         |

See explanatory information and SOURCE at end of table.

Table B-15. 1988 science and engineering (S&E) master's degree-recipients, by field of degree, employment status, and racial/ethnic group: 1990

| Field of degree        | Employed in S&E occupation |        |       |       |                 |             |
|------------------------|----------------------------|--------|-------|-------|-----------------|-------------|
|                        | Total                      | White  | Black | Asian | Native American | Hispanic 1/ |
| Total, all fields..... | 39,800                     | 30,200 | 1,100 | 4,600 | 100             | 1,000       |
| Total sciences.....    | 24,600                     | 19,100 | 700   | 2,400 | S               | 500         |
| Physical sciences..... | 2,400                      | 2,100  | S     | 200   | S               | S           |
| Chemistry.....         | 1,100                      | 900    | S     | 100   | S               | S           |
| Physics/astronomy..... | 900                        | 800    | S     | 100   | S               | S           |
| Other phys sciences... | 500                        | 400    | S     | S     | S               | S           |
| Math/statistics.....   | 3,800                      | 3,100  | 100   | 300   | S               | 100         |
| Computer science.....  | 8,000                      | 5,400  | 300   | 1,200 | S               | 100         |
| Environ science.....   | 1,900                      | 1,700  | S     | S     | S               | S           |
| Life sciences.....     | 4,500                      | 3,800  | 100   | 300   | S               | 100         |
| Biology.....           | 2,800                      | 2,500  | S     | 200   | S               | S           |
| Agr science.....       | 1,700                      | 1,300  | 100   | 200   | S               | 100         |
| Psychology.....        | 1,300                      | 1,300  | S     | S     | S               | S           |
| Social sciences.....   | 2,600                      | 1,600  | 100   | 300   | S               | 200         |
| Economics.....         | 400                        | 200    | S     | 100   | S               | S           |
| Socio/anthro.....      | 400                        | 400    | S     | S     | S               | S           |
| Other soc sciences.... | 1,800                      | 1,000  | 100   | 100   | S               | 100         |
| Total engineering..... | 15,100                     | 11,100 | 500   | 2,200 | S               | 500         |
| Aero/astro.....        | 500                        | 400    | S     | S     | S               | S           |
| Chemical.....          | 800                        | 500    | S     | 100   | S               | S           |
| Civil.....             | 1,800                      | 1,400  | S     | 300   | S               | 100         |
| Elect/electron.....    | 4,800                      | 3,200  | 300   | 900   | S               | 100         |
| Industrial.....        | 800                        | 700    | S     | 100   | S               | 100         |
| Materials.....         | 500                        | 300    | S     | 200   | S               | S           |
| Mechanical.....        | 3,300                      | 2,400  | 100   | 400   | S               | 100         |
| Mining.....            | 200                        | 200    | S     | S     | S               | S           |
| Nuclear.....           | 100                        | 100    | S     | S     | S               | S           |
| Petroleum.....         | 200                        | 100    | S     | S     | S               | S           |
| Other engineering..... | 2,300                      | 1,900  | S     | 200   | S               | 100         |

| Field of degree        | Unemployed |       |       |       |                 |             |
|------------------------|------------|-------|-------|-------|-----------------|-------------|
|                        | Total      | White | Black | Asian | Native American | Hispanic 1/ |
| Total, all fields..... | 800        | 600   | 100   | 100   | S               | S           |
| Total sciences.....    | 600        | 400   | S     | 100   | S               | S           |
| Physical sciences..... | S          | S     | S     | S     | S               | S           |
| Chemistry.....         | S          | S     | S     | S     | S               | S           |
| Physics/astronomy..... | S          | S     | S     | S     | S               | S           |
| Other phys sciences... | S          | S     | S     | S     | S               | S           |
| Math/statistics.....   | S          | S     | S     | S     | S               | S           |
| Computer science.....  | 200        | 100   | S     | 100   | S               | S           |
| Environ science.....   | S          | S     | S     | S     | S               | S           |
| Life sciences.....     | 100        | 100   | S     | S     | S               | S           |
| Biology.....           | 100        | 100   | S     | S     | S               | S           |
| Agr science.....       | 100        | 100   | S     | S     | S               | S           |
| Psychology.....        | 100        | 100   | S     | S     | S               | S           |
| Social sciences.....   | 100        | S     | S     | S     | S               | S           |
| Economics.....         | S          | S     | S     | S     | S               | S           |
| Socio/anthro.....      | S          | S     | S     | S     | S               | S           |
| Other soc sciences.... | 100        | S     | S     | S     | S               | S           |
| Total engineering..... | 300        | 200   | 100   | S     | S               | S           |
| Aero/astro.....        | S          | S     | S     | S     | S               | S           |
| Chemical.....          | S          | S     | S     | S     | S               | S           |
| Civil.....             | S          | S     | S     | S     | S               | S           |
| Elect/electron.....    | 100        | 100   | S     | S     | S               | S           |
| Industrial.....        | 100        | S     | 100   | S     | S               | S           |
| Materials.....         | S          | S     | S     | S     | S               | S           |
| Mechanical.....        | S          | S     | S     | S     | S               | S           |
| Mining.....            | S          | S     | S     | S     | S               | S           |
| Nuclear.....           | S          | S     | S     | S     | S               | S           |
| Petroleum.....         | S          | S     | S     | S     | S               | S           |
| Other engineering..... | S          | S     | S     | S     | S               | S           |

See explanatory information and SOURCE at end of table.

Table B-15. 1988 science and engineering (S&E) master's degree-recipients,  
by field of degree, employment status, and racial/ethnic group: 1990

| Field of degree          | Outside labor force |       |       |       |                 |                        |
|--------------------------|---------------------|-------|-------|-------|-----------------|------------------------|
|                          | Total               | White | Black | Asian | Native American | Hispanic <sup>1/</sup> |
| Total, all fields.....   | 1,600               | 1,300 | S     | 200   | S               | S                      |
| Total sciences.....      | 1,200               | 1,100 | S     | 100   | S               | S                      |
| Physical sciences.....   | 100                 | 100   | S     | S     | S               | S                      |
| Chemistry.....           | S                   | S     | S     | S     | S               | S                      |
| Physics/astronomy.....   | S                   | S     | S     | S     | S               | S                      |
| Other phys sciences..... | S                   | S     | S     | S     | S               | S                      |
| Math/statistics.....     | 100                 | S     | S     | 100   | S               | S                      |
| Computer science.....    | 100                 | 100   | S     | S     | S               | S                      |
| Environ science.....     | S                   | S     | S     | S     | S               | S                      |
| Life sciences.....       | 200                 | 200   | S     | S     | S               | S                      |
| Biology.....             | 100                 | 100   | S     | S     | S               | S                      |
| Agr science.....         | 100                 | 100   | S     | S     | S               | S                      |
| Psychology.....          | S                   | S     | S     | S     | S               | S                      |
| Social sciences.....     | 800                 | 700   | S     | S     | S               | S                      |
| Economics.....           | S                   | S     | S     | S     | S               | S                      |
| Socio/anthro.....        | 100                 | 100   | S     | S     | S               | S                      |
| Other soc sciences.....  | 700                 | 600   | S     | S     | S               | S                      |
| Total engineering.....   | 400                 | 200   | S     | 100   | S               | S                      |
| Aero/astro.....          | S                   | S     | S     | S     | S               | S                      |
| Chemical.....            | S                   | S     | S     | S     | S               | S                      |
| Civil.....               | S                   | S     | S     | S     | S               | S                      |
| Elect/electron.....      | 200                 | 100   | S     | S     | S               | S                      |
| Industrial.....          | S                   | S     | S     | S     | S               | S                      |
| Materials.....           | S                   | S     | S     | S     | S               | S                      |
| Mechanical.....          | S                   | S     | S     | S     | S               | S                      |
| Mining.....              | S                   | S     | S     | S     | S               | S                      |
| Nuclear.....             | S                   | S     | S     | S     | S               | S                      |
| Petroleum.....           | S                   | S     | S     | S     | S               | S                      |
| Other engineering.....   | 100                 | 100   | S     | S     | S               | S                      |

1/ Includes members of all racial groups

KEY: S = Data suppressed for statistical reasons

NOTES: Components will not add to totals because (a) racial and ethnic categories are not mutually exclusive, (b) total includes "other" and "no report," and (c) both components and totals have been rounded.  
Data exclude those on full-time graduate students.

SOURCE: National Science Foundation/SRS, 1990 New Entrants Survey

Table B-16. 1988 science and engineering master's-degree recipients, by field of degree, sex, and type of employer: 1990

| Field of degree and sex | Total employed | Type of employer      |          |               |                          |                   |       |                 |                    |                     |       |           |
|-------------------------|----------------|-----------------------|----------|---------------|--------------------------|-------------------|-------|-----------------|--------------------|---------------------|-------|-----------|
|                         |                | Business and industry |          |               | Educational institutions |                   |       | Non-profit orgs | Federal Government | State local govern- | Other | No report |
|                         |                | Total                 | Industry | Self-employed | Total                    | 4-yr college univ | Other |                 |                    |                     |       |           |
| Total, all fields.....  | 48,700         | 29,500                | 28,800   | 700           | 7,400                    | 3,500             | 4,000 | 1,500           | 4,100              | 2,400               | 3,700 | 100       |
| Men.....                | 34,700         | 23,500                | 23,000   | 500           | 4,000                    | 2,000             | 2,000 | 600             | 2,400              | 1,400               | 2,900 | 100       |
| Women.....              | 14,000         | 5,900                 | 5,800    | 100           | 3,500                    | 1,500             | 2,000 | 900             | 1,800              | 1,000               | 800   | 100       |
| Total sciences.....     | 32,200         | 16,200                | 15,700   | 500           | 6,800                    | 3,000             | 3,900 | 1,400           | 3,200              | 1,900               | 2,700 | \$        |
| Men.....                | 19,900         | 11,500                | 11,100   | 400           | 3,400                    | 1,500             | 1,900 | 400             | 1,600              | 1,000               | 2,000 | \$        |
| Women.....              | 12,300         | 4,700                 | 4,600    | 100           | 3,400                    | 1,400             | 2,000 | 900             | 1,500              | 900                 | 700   | \$        |
| Physical sciences.....  | 2,700          | 1,600                 | 1,600    | \$            | 700                      | 200               | 400   | 100             | 200                | \$                  | 200   | \$        |
| Men.....                | 2,100          | 1,200                 | 1,200    | \$            | 500                      | 200               | 300   | 100             | 200                | \$                  | 200   | \$        |
| Women.....              | 600            | 400                   | 400      | \$            | 200                      | 100               | 100   | \$              | \$                 | \$                  | \$    | \$        |
| Chemistry.....          | 1,200          | 800                   | 800      | \$            | 200                      | 100               | 100   | \$              | 100                | \$                  | \$    | \$        |
| Men.....                | 700            | 500                   | 500      | \$            | 200                      | \$                | 100   | \$              | \$                 | \$                  | \$    | \$        |
| Women.....              | 500            | 400                   | 400      | \$            | 100                      | 100               | \$    | \$              | \$                 | \$                  | \$    | \$        |
| Physics/astronomy.....  | 1,000          | 600                   | 600      | \$            | 100                      | 100               | \$    | \$              | 100                | \$                  | 100   | \$        |
| Men.....                | 900            | 600                   | 600      | \$            | 100                      | 100               | \$    | \$              | 100                | \$                  | 100   | \$        |
| Women.....              | \$             | \$                    | \$       | \$            | \$                       | \$                | \$    | \$              | \$                 | \$                  | \$    | \$        |
| Other phys sciences...  | 600            | 200                   | 200      | \$            | 300                      | \$                | 200   | \$              | \$                 | \$                  | \$    | \$        |
| Men.....                | 500            | 200                   | 200      | \$            | 200                      | \$                | 200   | \$              | \$                 | \$                  | \$    | \$        |
| Women.....              | 100            | \$                    | \$       | \$            | 100                      | \$                | 100   | \$              | \$                 | \$                  | \$    | \$        |
| Math/statistics.....    | 4,600          | 1,700                 | 1,700    | \$            | 2,200                    | 500               | 1,600 | \$              | \$                 | 100                 | 400   | \$        |
| Men.....                | 2,600          | 1,100                 | 1,100    | \$            | 900                      | 300               | 600   | \$              | \$                 | 100                 | 300   | \$        |
| Women.....              | 2,000          | 600                   | 600      | \$            | 1,200                    | 300               | 1,000 | \$              | \$                 | \$                  | 100   | \$        |
| Computer science.....   | 9,300          | 7,100                 | 7,000    | 100           | 600                      | 300               | 300   | 100             | 500                | 100                 | 900   | \$        |
| Men.....                | 6,900          | 5,300                 | 5,100    | 100           | 500                      | 200               | 300   | 100             | 300                | \$                  | 800   | \$        |
| Women.....              | 2,400          | 1,800                 | 1,800    | \$            | 200                      | 100               | 100   | 100             | 200                | 100                 | 100   | \$        |
| Environ science.....    | 2,000          | 1,200                 | 1,100    | 100           | 200                      | 100               | \$    | \$              | 300                | 200                 | 100   | \$        |
| Men.....                | 1,500          | 1,000                 | 1,000    | \$            | 100                      | 100               | \$    | \$              | 200                | 100                 | 100   | \$        |
| Women.....              | 500            | 200                   | 200      | \$            | 100                      | 100               | \$    | \$              | 100                | 100                 | \$    | \$        |
| Life sciences.....      | 5,600          | 1,600                 | 1,500    | 100           | 1,900                    | 1,000             | 900   | 300             | 900                | 500                 | 500   | \$        |
| Men.....                | 2,600          | 1,000                 | 1,000    | 100           | 900                      | 600               | 300   | \$              | 200                | 300                 | 200   | \$        |
| Women.....              | 3,000          | 500                   | 500      | \$            | 1,000                    | 400               | 600   | 300             | 700                | 300                 | 200   | \$        |
| Biology.....            | 3,400          | 700                   | 700      | \$            | 1,000                    | 200               | 800   | 300             | 700                | 400                 | 400   | \$        |
| Men.....                | 1,000          | 300                   | 300      | \$            | 400                      | 100               | 300   | \$              | 100                | 100                 | 200   | \$        |
| Women.....              | 2,400          | 400                   | 400      | \$            | 600                      | 100               | 500   | 300             | 600                | 300                 | 200   | \$        |
| Agr science.....        | 2,200          | 900                   | 800      | 100           | 900                      | 800               | 100   | 100             | 200                | 100                 | 100   | \$        |
| Men.....                | 1,600          | 800                   | 700      | 100           | 500                      | 500               | \$    | \$              | 100                | 100                 | 100   | \$        |
| Women.....              | 600            | 100                   | 100      | \$            | 400                      | 300               | 100   | 100             | 100                | \$                  | \$    | \$        |
| Psychology.....         | 2,100          | 600                   | 600      | \$            | 400                      | 200               | 200   | 600             | 100                | 200                 | 300   | \$        |
| Men.....                | 700            | 200                   | 200      | \$            | 100                      | \$                | 100   | 100             | \$                 | 100                 | 100   | \$        |
| Women.....              | 1,400          | 400                   | 400      | \$            | 300                      | 100               | 100   | 400             | 100                | 100                 | 200   | \$        |
| Social sciences.....    | 5,900          | 2,400                 | 2,200    | 200           | 1,000                    | 600               | 300   | 200             | 1,100              | 900                 | 400   | \$        |
| Men.....                | 3,600          | 1,600                 | 1,400    | 100           | 500                      | 200               | 300   | 100             | 700                | 500                 | 300   | \$        |
| Women.....              | 2,300          | 800                   | 800      | 100           | 500                      | 400               | \$    | 100             | 400                | 400                 | 100   | \$        |
| Economics.....          | 1,600          | 1,300                 | 1,300    | \$            | 100                      | 100               | \$    | \$              | \$                 | 200                 | \$    | \$        |
| Men.....                | 1,200          | 1,000                 | 1,000    | \$            | \$                       | \$                | \$    | \$              | \$                 | 200                 | \$    | \$        |
| Women.....              | 400            | 300                   | 300      | \$            | \$                       | \$                | \$    | \$              | \$                 | \$                  | \$    | \$        |
| Socio/anthro.....       | 900            | 200                   | 100      | 100           | 200                      | 200               | \$    | \$              | 100                | 200                 | 100   | \$        |
| Men.....                | 400            | 100                   | \$       | 100           | \$                       | \$                | \$    | \$              | \$                 | 100                 | 100   | \$        |
| Women.....              | 500            | 100                   | 100      | 100           | 200                      | 200               | \$    | \$              | 100                | 100                 | \$    | \$        |
| Other soc sciences...   | 3,400          | 900                   | 800      | 100           | 700                      | 400               | 300   | 200             | 1,000              | 500                 | 200   | \$        |
| Men.....                | 2,000          | 500                   | 400      | 100           | 500                      | 200               | 300   | 100             | 700                | 200                 | 100   | \$        |
| Women.....              | 1,400          | 400                   | 400      | \$            | 200                      | 200               | \$    | 100             | 300                | 300                 | 100   | \$        |

See explanatory information and SOURCE at end of table.

Table B-16. 1988 science and engineering master's-degree recipients, by field of degree, sex, and type of employer: 1990

| Field of degree and sex | Total employed | Type of employer      |          |               |                          |                   |       |                 |                    |                         |       |           |
|-------------------------|----------------|-----------------------|----------|---------------|--------------------------|-------------------|-------|-----------------|--------------------|-------------------------|-------|-----------|
|                         |                | Business and industry |          |               | Educational institutions |                   |       | Non-profit orgs | Federal Government | State/local governments | Other | No report |
|                         |                | Total                 | Industry | Self-employed | Total                    | 4-yr college univ | Other |                 |                    |                         |       |           |
| Total engineering.....  | 16,500         | 13,300                | 13,100   | 100           | 600                      | 500               | 100   | 200             | 1,000              | 500                     | 900   | 100       |
| Men.....                | 14,800         | 12,000                | 11,900   | 100           | 500                      | 400               | 100   | 100             | 800                | 400                     | 900   | 100       |
| Women.....              | 1,800          | 1,300                 | 1,200    | S             | 100                      | 100               | S     | S               | 200                | 100                     | S     | S         |
| Aero/astro.....         | 600            | 600                   | 600      | S             | S                        | S                 | S     | S               | S                  | S                       | S     | S         |
| Men.....                | 600            | 500                   | 500      | S             | S                        | S                 | S     | S               | S                  | S                       | S     | S         |
| Women.....              | S              | S                     | S        | S             | S                        | S                 | S     | S               | S                  | S                       | S     | S         |
| Chemical.....           | 800            | 700                   | 700      | S             | 100                      | 100               | S     | S               | S                  | S                       | S     | S         |
| Men.....                | 700            | 600                   | 600      | S             | S                        | S                 | S     | S               | S                  | S                       | S     | S         |
| Women.....              | 100            | 100                   | 100      | S             | S                        | S                 | S     | S               | S                  | S                       | S     | S         |
| Civil.....              | 1,900          | 1,200                 | 1,200    | S             | 100                      | 100               | S     | S               | 200                | 200                     | 100   | S         |
| Men.....                | 1,600          | 1,100                 | 1,100    | S             | 100                      | 100               | S     | S               | 100                | 200                     | S     | S         |
| Women.....              | 300            | 100                   | 100      | S             | S                        | S                 | S     | S               | S                  | 100                     | S     | S         |
| Elect/electron.....     | 5,100          | 4,300                 | 4,300    | S             | 100                      | 100               | S     | S               | 300                | S                       | 400   | S         |
| Men.....                | 4,800          | 4,000                 | 4,000    | S             | 100                      | 100               | S     | S               | 300                | S                       | 400   | S         |
| Women.....              | 200            | 200                   | 200      | S             | S                        | S                 | S     | S               | S                  | S                       | S     | S         |
| Industrial.....         | 1,200          | 900                   | 900      | S             | S                        | S                 | S     | S               | 100                | S                       | 100   | S         |
| Men.....                | 1,000          | 800                   | 800      | S             | S                        | S                 | S     | S               | S                  | S                       | 100   | S         |
| Women.....              | 200            | 100                   | 100      | S             | S                        | S                 | S     | S               | S                  | S                       | S     | S         |
| Materials.....          | 500            | 400                   | 400      | S             | S                        | S                 | S     | S               | S                  | S                       | S     | S         |
| Men.....                | 300            | 300                   | 300      | S             | S                        | S                 | S     | S               | S                  | S                       | S     | S         |
| Women.....              | 200            | 100                   | 100      | S             | S                        | S                 | S     | S               | S                  | S                       | S     | S         |
| Mechanical.....         | 3,500          | 3,000                 | 2,900    | S             | 100                      | 100               | S     | 100             | 200                | 100                     | S     | S         |
| Men.....                | 3,200          | 2,800                 | 2,800    | S             | 100                      | 100               | S     | 100             | 100                | 100                     | S     | S         |
| Women.....              | 300            | 200                   | 200      | S             | S                        | S                 | S     | S               | 100                | S                       | S     | S         |
| Mining.....             | 200            | 100                   | 100      | S             | S                        | S                 | S     | S               | S                  | S                       | S     | S         |
| Men.....                | 100            | 100                   | 100      | S             | S                        | S                 | S     | S               | S                  | S                       | S     | S         |
| Women.....              | S              | S                     | S        | S             | S                        | S                 | S     | S               | S                  | S                       | S     | S         |
| Nuclear.....            | 100            | 100                   | 100      | S             | S                        | S                 | S     | S               | S                  | S                       | S     | S         |
| Men.....                | 100            | 100                   | 100      | S             | S                        | S                 | S     | S               | S                  | S                       | S     | S         |
| Women.....              | S              | S                     | S        | S             | S                        | S                 | S     | S               | S                  | S                       | S     | S         |
| Petroleum.....          | 200            | 200                   | 200      | S             | S                        | S                 | S     | S               | S                  | S                       | S     | S         |
| Men.....                | 200            | 100                   | 100      | S             | S                        | S                 | S     | S               | S                  | S                       | S     | S         |
| Women.....              | S              | S                     | S        | S             | S                        | S                 | S     | S               | S                  | S                       | S     | S         |
| Other engineering.....  | 2,500          | 1,800                 | 1,800    | 100           | 200                      | 100               | 100   | S               | 200                | 100                     | 300   | S         |
| Men.....                | 2,100          | 1,500                 | 1,400    | S             | 100                      | 100               | 100   | S               | 100                | 100                     | 300   | S         |
| Women.....              | 400            | 300                   | 300      | S             | S                        | S                 | S     | S               | 100                | S                       | S     | S         |

KEY: S = Data suppressed for statistical reasons

NOTES: Because of rounding, components may not add to totals.  
Data exclude those on full-time graduate students.

SOURCE: National Science Foundation/SRS, 1990 New Entrants Survey

Table B-17. 1986 science and engineering master's-degree recipients, by field of degree, sex, and primary work activity: 1990

| Field of degree and sex | Total employed | Primary work activity    |       |         |             |                           |        |            |
|-------------------------|----------------|--------------------------|-------|---------|-------------|---------------------------|--------|------------|
|                         |                | Research and development |       |         |             | Management/administration |        |            |
|                         |                | Total                    | Basic | Applied | Development | Total                     | Of R&D | Of non-R&D |
| Total, all fields.....  | 48,700         | 16,500                   | 1,600 | 4,100   | 10,800      | 8,300                     | 2,600  | 5,700      |
| Men.....                | 34,700         | 12,900                   | 800   | 2,700   | 9,400       | 5,800                     | 2,000  | 3,800      |
| Women.....              | 14,000         | 3,600                    | 800   | 1,400   | 1,400       | 2,600                     | 600    | 1,900      |
| Total sciences.....     | 32,200         | 8,200                    | 1,400 | 2,800   | 4,100       | 6,100                     | 1,700  | 4,400      |
| Men.....                | 19,900         | 5,300                    | 600   | 1,500   | 3,200       | 3,800                     | 1,200  | 2,600      |
| Women.....              | 12,300         | 2,900                    | 800   | 1,300   | 800         | 2,300                     | 500    | 1,700      |
| Physical sciences.....  | 2,700          | 1,300                    | 200   | 500     | 600         | 200                       | S      | 100        |
| Men.....                | 2,100          | 1,000                    | 200   | 400     | 400         | 100                       | S      | 100        |
| Women.....              | 600            | 300                      | 100   | 100     | 200         | S                         | S      | S          |
| Chemistry.....          | 1,200          | 700                      | 100   | 300     | 300         | 100                       | S      | 100        |
| Men.....                | 700            | 400                      | S     | 200     | 100         | 100                       | S      | 100        |
| Women.....              | 500            | 300                      | 100   | 100     | 200         | S                         | S      | S          |
| Physics/astronomy.....  | 1,000          | 500                      | 100   | 100     | 300         | S                         | S      | S          |
| Men.....                | 900            | 500                      | 100   | 100     | 300         | S                         | S      | S          |
| Women.....              | S              | S                        | S     | S       | S           | S                         | S      | S          |
| Other phys sciences...  | 600            | 100                      | S     | 100     | S           | 100                       | S      | S          |
| Men.....                | 500            | 100                      | S     | 100     | S           | S                         | S      | S          |
| Women.....              | 100            | S                        | S     | S       | S           | S                         | S      | S          |
| Math/statistics.....    | 4,500          | 700                      | 100   | 300     | 400         | 600                       | 100    | 400        |
| Men.....                | 2,600          | 500                      | 100   | 200     | 300         | 400                       | 100    | 300        |
| Women.....              | 2,000          | 200                      | S     | 100     | 100         | 100                       | S      | 100        |
| Computer science.....   | 9,300          | 2,600                    | S     | 300     | 2,300       | 1,700                     | 700    | 1,000      |
| Men.....                | 6,900          | 2,100                    | S     | 100     | 2,000       | 1,400                     | 600    | 800        |
| Women.....              | 2,400          | 500                      | S     | 200     | 300         | 300                       | 100    | 200        |
| Environ science.....    | 2,000          | 600                      | 100   | 300     | 200         | 200                       | 100    | 200        |
| Men.....                | 1,500          | 500                      | 100   | 200     | 100         | 100                       | S      | 100        |
| Women.....              | 500            | 100                      | S     | 100     | S           | 100                       | S      | 100        |
| Life sciences.....      | 5,600          | 2,100                    | 700   | 900     | 500         | 1,000                     | 500    | 500        |
| Men.....                | 2,600          | 800                      | 100   | 300     | 300         | 500                       | 300    | 200        |
| Women.....              | 3,000          | 1,200                    | 600   | 500     | 100         | 500                       | 200    | 300        |
| Biology.....            | 3,400          | 1,300                    | 700   | 600     | S           | 400                       | 100    | 300        |
| Men.....                | 1,000          | 300                      | 100   | 200     | S           | 100                       | S      | 100        |
| Women.....              | 2,400          | 900                      | 500   | 400     | S           | 300                       | 100    | 200        |
| Agr science.....        | 2,200          | 800                      | S     | 300     | 400         | 600                       | 400    | 200        |
| Men.....                | 1,600          | 500                      | S     | 200     | 300         | 400                       | 300    | 100        |
| Women.....              | 600            | 300                      | S     | 100     | 100         | 100                       | 100    | 100        |
| Psychology.....         | 2,100          | 200                      | S     | 100     | 100         | 400                       | 100    | 300        |
| Men.....                | 700            | 100                      | S     | S       | S           | 200                       | S      | 200        |
| Women.....              | 1,400          | 100                      | S     | 100     | 100         | 300                       | 100    | 200        |
| Social sciences.....    | 5,900          | 700                      | 100   | 500     | 100         | 2,000                     | 200    | 1,800      |
| Men.....                | 3,600          | 300                      | 100   | 300     | S           | 1,100                     | 100    | 900        |
| Women.....              | 2,300          | 400                      | S     | 300     | S           | 1,000                     | 100    | 800        |
| Economics.....          | 1,600          | 200                      | S     | 100     | S           | 400                       | S      | 400        |
| Men.....                | 1,200          | 100                      | S     | 100     | S           | 400                       | S      | 400        |
| Women.....              | 400            | 100                      | S     | S       | S           | S                         | S      | S          |
| Socio/anthro.....       | 900            | 200                      | S     | 100     | 100         | 200                       | S      | 100        |
| Men.....                | 400            | S                        | S     | S       | S           | 100                       | S      | 100        |
| Women.....              | 500            | 200                      | S     | 100     | S           | 100                       | S      | S          |
| Other soc sciences....  | 3,400          | 300                      | 100   | 300     | S           | 1,400                     | 200    | 1,200      |
| Men.....                | 2,000          | 200                      | 100   | 200     | S           | 600                       | 100    | 400        |
| Women.....              | 1,400          | 100                      | S     | 100     | S           | 900                       | 100    | 800        |

See explanatory information and SOURCE at end of table.



Table B-17. 1988 science and engineering master's-degree recipients, by field of degree, sex, and primary work activity: 1990

| Field of degree and sex | Primary work activity |                       |                               |       |                       |       |           |
|-------------------------|-----------------------|-----------------------|-------------------------------|-------|-----------------------|-------|-----------|
|                         | Teaching              | Production/inspection | Reporting/stat work/computing | Sales | Professional services | Other | No report |
| Total, all fields.....  | 5,900                 | 3,800                 | 7,000                         | 600   | 600                   | 5,800 | 100       |
| Men.....                | 3,200                 | 3,200                 | 4,800                         | 500   | 200                   | 4,100 | \$        |
| Women.....              | 2,800                 | 600                   | 2,200                         | 100   | 400                   | 1,700 | \$        |
| Total sciences.....     | 5,400                 | 2,000                 | 5,500                         | 400   | 600                   | 4,000 | \$        |
| Men.....                | 2,700                 | 1,500                 | 3,500                         | 400   | 200                   | 2,600 | \$        |
| Women.....              | 2,800                 | 500                   | 2,000                         | \$    | 400                   | 1,400 | \$        |
| Physical sciences.....  | 500                   | 400                   | 200                           | \$    | \$                    | 200   | \$        |
| Men.....                | 400                   | 300                   | 100                           | \$    | \$                    | 100   | \$        |
| Women.....              | 200                   | \$                    | 100                           | \$    | \$                    | \$    | \$        |
| Chemistry.....          | 200                   | 100                   | 100                           | \$    | \$                    | 100   | \$        |
| Men.....                | 100                   | 100                   | \$                            | \$    | \$                    | 100   | \$        |
| Women.....              | 100                   | \$                    | 100                           | \$    | \$                    | \$    | \$        |
| Physics/astronomy.....  | 100                   | 200                   | 100                           | \$    | \$                    | \$    | \$        |
| Men.....                | 100                   | 200                   | 100                           | \$    | \$                    | \$    | \$        |
| Women.....              | \$                    | \$                    | \$                            | \$    | \$                    | \$    | \$        |
| Other phys sciences...  | 200                   | 100                   | \$                            | \$    | \$                    | 100   | \$        |
| Men.....                | 200                   | 100                   | \$                            | \$    | \$                    | 100   | \$        |
| Women.....              | 100                   | \$                    | \$                            | \$    | \$                    | \$    | \$        |
| Math/statistics.....    | 2,000                 | 200                   | 800                           | \$    | \$                    | 300   | \$        |
| Men.....                | 900                   | 100                   | 500                           | \$    | \$                    | 200   | \$        |
| Women.....              | 1,100                 | 100                   | 300                           | \$    | \$                    | 100   | \$        |
| Computer science.....   | 400                   | 400                   | 3,100                         | 100   | \$                    | 900   | \$        |
| Men.....                | 300                   | 300                   | 2,100                         | 100   | \$                    | 600   | \$        |
| Women.....              | 100                   | 100                   | 1,000                         | \$    | \$                    | 300   | \$        |
| Environ science.....    | 100                   | 300                   | 300                           | \$    | \$                    | 500   | \$        |
| Men.....                | \$                    | 300                   | 200                           | \$    | \$                    | 400   | \$        |
| Women.....              | \$                    | \$                    | 100                           | \$    | \$                    | 100   | \$        |
| Life sciences.....      | 1,200                 | 300                   | 300                           | \$    | 100                   | 600   | \$        |
| Men.....                | 600                   | 100                   | 200                           | \$    | \$                    | 300   | \$        |
| Women.....              | 600                   | 200                   | 100                           | \$    | \$                    | 300   | \$        |
| Biology.....            | 900                   | 300                   | 100                           | \$    | \$                    | 300   | \$        |
| Men.....                | 400                   | 100                   | \$                            | \$    | \$                    | 100   | \$        |
| Women.....              | 500                   | 200                   | 100                           | \$    | \$                    | 300   | \$        |
| Agr science.....        | 300                   | \$                    | 300                           | \$    | \$                    | 300   | \$        |
| Men.....                | 200                   | \$                    | 200                           | \$    | \$                    | 200   | \$        |
| Women.....              | 100                   | \$                    | \$                            | \$    | \$                    | \$    | \$        |
| Psychology.....         | 400                   | \$                    | 100                           | \$    | 500                   | 300   | \$        |
| Men.....                | 200                   | \$                    | \$                            | \$    | 100                   | \$    | \$        |
| Women.....              | 300                   | \$                    | 100                           | \$    | 400                   | 300   | \$        |
| Social sciences.....    | 900                   | 300                   | 500                           | 200   | \$                    | 1,200 | \$        |
| Men.....                | 400                   | 300                   | 300                           | 200   | \$                    | 900   | \$        |
| Women.....              | 500                   | \$                    | 200                           | \$    | \$                    | 300   | \$        |
| Economics.....          | 100                   | 300                   | 200                           | 100   | \$                    | 300   | \$        |
| Men.....                | \$                    | 300                   | 200                           | 100   | \$                    | 200   | \$        |
| Women.....              | 100                   | \$                    | \$                            | \$    | \$                    | 200   | \$        |
| Socio/anthro.....       | 100                   | \$                    | 100                           | 100   | \$                    | 200   | \$        |
| Men.....                | \$                    | \$                    | \$                            | 100   | \$                    | 100   | \$        |
| Women.....              | 100                   | \$                    | 100                           | \$    | \$                    | 100   | \$        |
| Other soc sciences....  | 600                   | 100                   | 200                           | 100   | \$                    | 700   | \$        |
| Men.....                | 400                   | 100                   | 100                           | 100   | \$                    | 700   | \$        |
| Women.....              | 200                   | \$                    | 100                           | \$    | \$                    | 100   | \$        |

See explanatory information and SOURCE at end of table.

Table B-17. 1988 science and engineering master's-degree recipients, by field of degree, sex, and primary work activity: 1990

| Field of degree and sex | Total employed | Primary work activity    |       |         |                           |       |        |            |
|-------------------------|----------------|--------------------------|-------|---------|---------------------------|-------|--------|------------|
|                         |                | Research and development |       |         | Management/administration |       |        |            |
|                         |                | Total                    | Basic | Applied | Development               | Total | Of R&D | Of non-R&D |
| Total engineering.....  | 16,500         | 8,300                    | 300   | 1,300   | 6,700                     | 2,200 | 900    | 1,300      |
| Men.....                | 14,800         | 7,600                    | 200   | 1,200   | 6,200                     | 1,900 | 800    | 1,100      |
| Women.....              | 1,800          | 700                      | 100   | 100     | 600                       | 300   | 100    | 200        |
| Aero/astro.....         | 600            | 300                      | S     | 100     | 300                       | 200   | 100    | 100        |
| Men.....                | 600            | 300                      | S     | 100     | 300                       | 200   | 100    | 100        |
| Women.....              | S              | S                        | S     | S       | S                         | S     | S      | S          |
| Chemical.....           | 800            | 400                      | S     | 100     | 300                       | 200   | 100    | 100        |
| Men.....                | 700            | 400                      | S     | 100     | 200                       | 200   | 100    | 100        |
| Women.....              | 100            | 100                      | S     | S       | S                         | S     | S      | S          |
| Civil.....              | 1,900          | 500                      | S     | 100     | 300                       | 300   | S      | 300        |
| Men.....                | 1,600          | 400                      | S     | 100     | 300                       | 300   | S      | 300        |
| Women.....              | 300            | 100                      | S     | S       | S                         | 100   | S      | 100        |
| Elect/electron.....     | 5,100          | 3,200                    | S     | 300     | 2,800                     | 400   | 300    | 100        |
| Men.....                | 4,800          | 3,100                    | S     | 300     | 2,700                     | 400   | 300    | 100        |
| Women.....              | 200            | 100                      | S     | S       | 100                       | S     | S      | S          |
| Industrial.....         | 1,200          | 300                      | S     | 100     | 200                       | 300   | 100    | 200        |
| Men.....                | 1,000          | 200                      | S     | 100     | 100                       | 200   | S      | 200        |
| Women.....              | 200            | S                        | S     | S       | S                         | 100   | S      | 100        |
| Materials.....          | 500            | 400                      | S     | 100     | 200                       | 100   | 100    | S          |
| Men.....                | 300            | 200                      | S     | 100     | 100                       | 100   | 100    | S          |
| Women.....              | 200            | 100                      | S     | S       | 100                       | S     | S      | S          |
| Mechanical.....         | 3,500          | 2,400                    | S     | 400     | 2,000                     | 300   | 200    | 200        |
| Men.....                | 3,200          | 2,200                    | S     | 400     | 1,800                     | 300   | 200    | 100        |
| Women.....              | 300            | 200                      | S     | S       | 200                       | S     | S      | S          |
| Mining.....             | 200            | S                        | S     | S       | S                         | S     | S      | S          |
| Men.....                | 100            | S                        | S     | S       | S                         | S     | S      | S          |
| Women.....              | S              | S                        | S     | S       | S                         | S     | S      | S          |
| Nuclear.....            | 100            | 100                      | S     | S       | S                         | S     | S      | S          |
| Men.....                | 100            | S                        | S     | S       | S                         | S     | S      | S          |
| Women.....              | S              | S                        | S     | S       | S                         | S     | S      | S          |
| Petroleum.....          | 200            | S                        | S     | S       | S                         | S     | S      | S          |
| Men.....                | 200            | S                        | S     | S       | S                         | S     | S      | S          |
| Women.....              | S              | S                        | S     | S       | S                         | S     | S      | S          |
| Other engineering.....  | 2,500          | 800                      | S     | 100     | 600                       | 400   | 100    | 300        |
| Men.....                | 2,100          | 700                      | S     | 100     | 600                       | 300   | 100    | 300        |
| Women.....              | 400            | 100                      | S     | S       | 100                       | 100   | S      | S          |

See explanatory information and SOURCE at end of table.

Table B-17. 1988 science and engineering master's-degree recipients, by field of degree, sex, and primary work activity: 1990

| Field of degree and sex | Primary work activity |                       |                               |       |                       |       |           |
|-------------------------|-----------------------|-----------------------|-------------------------------|-------|-----------------------|-------|-----------|
|                         | Teaching              | Production/inspection | Reporting/stat work/computing | Sales | Professional services | Other | No report |
| Total engineering.....  | 500                   | 1,900                 | 1,500                         | 200   | \$                    | 1,800 | 100       |
| Men.....                | 500                   | 1,700                 | 1,300                         | 200   | \$                    | 1,500 | \$        |
| Women.....              | \$                    | 100                   | 200                           | 100   | \$                    | 300   | \$        |
| Aero/astro.....         | \$                    | \$                    | \$                            | \$    | \$                    | \$    | \$        |
| Men.....                | \$                    | \$                    | \$                            | \$    | \$                    | \$    | \$        |
| Women.....              | \$                    | \$                    | \$                            | \$    | \$                    | \$    | \$        |
| Chemical.....           | \$                    | 100                   | \$                            | \$    | \$                    | 100   | \$        |
| Men.....                | \$                    | 100                   | \$                            | \$    | \$                    | 100   | \$        |
| Women.....              | \$                    | \$                    | \$                            | \$    | \$                    | \$    | \$        |
| Civil.....              | 100                   | 300                   | 100                           | \$    | \$                    | 500   | \$        |
| Men.....                | 100                   | 200                   | 100                           | \$    | \$                    | 500   | \$        |
| Women.....              | \$                    | \$                    | \$                            | \$    | \$                    | \$    | \$        |
| Elect/electron.....     | 200                   | 500                   | 600                           | \$    | \$                    | 100   | \$        |
| Men.....                | 200                   | 500                   | 500                           | \$    | \$                    | 100   | \$        |
| Women.....              | \$                    | \$                    | 100                           | \$    | \$                    | \$    | \$        |
| Industrial.....         | \$                    | 200                   | 100                           | 100   | \$                    | 200   | \$        |
| Men.....                | \$                    | 200                   | 100                           | 100   | \$                    | 200   | \$        |
| Women.....              | \$                    | 100                   | \$                            | \$    | \$                    | \$    | \$        |
| Materials.....          | \$                    | \$                    | \$                            | \$    | \$                    | \$    | \$        |
| Men.....                | \$                    | \$                    | \$                            | \$    | \$                    | \$    | \$        |
| Women.....              | \$                    | \$                    | \$                            | \$    | \$                    | \$    | \$        |
| Mechanical.....         | \$                    | 300                   | 200                           | \$    | \$                    | 200   | \$        |
| Men.....                | \$                    | 300                   | 200                           | \$    | \$                    | 200   | \$        |
| Women.....              | \$                    | \$                    | \$                            | \$    | \$                    | \$    | \$        |
| Mining.....             | \$                    | \$                    | \$                            | \$    | \$                    | \$    | \$        |
| Men.....                | \$                    | \$                    | \$                            | \$    | \$                    | \$    | \$        |
| Women.....              | \$                    | \$                    | \$                            | \$    | \$                    | \$    | \$        |
| Nuclear.....            | \$                    | \$                    | \$                            | \$    | \$                    | \$    | \$        |
| Men.....                | \$                    | \$                    | \$                            | \$    | \$                    | \$    | \$        |
| Women.....              | \$                    | \$                    | \$                            | \$    | \$                    | \$    | \$        |
| Petroleum.....          | \$                    | 100                   | \$                            | \$    | \$                    | \$    | \$        |
| Men.....                | \$                    | 100                   | \$                            | \$    | \$                    | \$    | \$        |
| Women.....              | \$                    | \$                    | \$                            | \$    | \$                    | \$    | \$        |
| Other engineering.....  | 100                   | 300                   | 300                           | \$    | \$                    | 500   | \$        |
| Men.....                | 100                   | 300                   | 300                           | \$    | \$                    | 400   | \$        |
| Women.....              | \$                    | \$                    | 100                           | \$    | \$                    | 200   | \$        |

KEY: \$ = Data suppressed for statistical reasons  
 NOTES: Because of rounding, components may not add to totals.  
 Data exclude those on full-time graduate students.  
 SOURCE: National Science Foundation/SRS, 1990 New Entrants Survey

Table B-18. 1988 science and engineering master's-degree recipients, by field of degree, type of employer, and primary work activity: 1990

| Field of degree and type of employer | Total employed | Primary work activity    |       |         |             |                           |        |            |
|--------------------------------------|----------------|--------------------------|-------|---------|-------------|---------------------------|--------|------------|
|                                      |                | Research and development |       |         |             | Management/administration |        |            |
|                                      |                | Total                    | Basic | Applied | Development | Total                     | Of R&D | Of non-R&D |
| Total, all fields.....               | 48,800         | 16,500                   | 1,600 | 4,100   | 10,800      | 8,300                     | 2,600  | 5,700      |
| Business and                         |                |                          |       |         |             |                           |        |            |
| Industry.....                        | 29,500         | 12,100                   | 300   | 2,200   | 9,600       | 4,400                     | 1,400  | 3,000      |
| Industry.....                        | 28,900         | 12,000                   | 300   | 2,100   | 9,600       | 4,300                     | 1,400  | 2,900      |
| Self employed.....                   | 700            | 100                      | 0     | 100     | 0           | 100                       | 0      | 100        |
| Educ inst, total.....                | 7,400          | 1,300                    | 600   | 500     | 200         | 600                       | 400    | 200        |
| 4-yr college/univ.....               | 3,500          | 1,200                    | 500   | 400     | 200         | 500                       | 400    | 100        |
| Other.....                           | 4,000          | 200                      | 100   | 100     | 0           | 100                       | 100    | 100        |
| Nonprofit orgs.....                  | 1,500          | 300                      | 100   | 200     | 0           | 400                       | 100    | 200        |
| Federal Government.....              | 4,100          | 1,700                    | 500   | 600     | 600         | 900                       | 300    | 600        |
| State/local govt.....                | 2,400          | 500                      | 100   | 300     | 200         | 900                       | 200    | 700        |
| Other.....                           | 3,700          | 600                      | 100   | 300     | 200         | 1,200                     | 300    | 900        |
| No report.....                       | 100            | 0                        | 0     | 0       | 0           | 0                         | 0      | 0          |
| Total sciences.....                  | 32,300         | 8,200                    | 1,400 | 2,800   | 4,100       | 6,100                     | 1,700  | 4,400      |
| Business and                         |                |                          |       |         |             |                           |        |            |
| Industry.....                        | 16,300         | 5,100                    | 200   | 1,400   | 3,600       | 2,700                     | 700    | 2,000      |
| Industry.....                        | 15,700         | 5,000                    | 200   | 1,300   | 3,500       | 2,600                     | 700    | 1,900      |
| Self employed.....                   | 500            | 100                      | 0     | 100     | 0           | 100                       | 0      | 100        |
| Educ inst, total.....                | 6,800          | 1,100                    | 600   | 400     | 200         | 600                       | 400    | 200        |
| 4-yr college/univ.....               | 3,000          | 900                      | 400   | 300     | 200         | 500                       | 300    | 100        |
| Other.....                           | 3,900          | 200                      | 100   | 100     | 0           | 100                       | 100    | 100        |
| Nonprofit orgs.....                  | 1,400          | 200                      | 0     | 100     | 0           | 400                       | 100    | 200        |
| Federal Government.....              | 3,200          | 1,100                    | 400   | 500     | 200         | 600                       | 100    | 500        |
| State/local govt.....                | 1,900          | 300                      | 100   | 200     | 0           | 800                       | 200    | 600        |
| Other.....                           | 2,700          | 400                      | 100   | 200     | 100         | 1,000                     | 200    | 800        |
| No report.....                       | 0              | 0                        | 0     | 0       | 0           | 0                         | 0      | 0          |
| Physical sciences.....               | 2,700          | 1,300                    | 200   | 500     | 600         | 200                       | 0      | 100        |
| Business and                         |                |                          |       |         |             |                           |        |            |
| Industry.....                        | 1,600          | 1,000                    | 100   | 400     | 500         | 100                       | 0      | 100        |
| Industry.....                        | 1,600          | 1,000                    | 100   | 400     | 500         | 100                       | 0      | 100        |
| Self employed.....                   | 0              | 0                        | 0     | 0       | 0           | 0                         | 0      | 0          |
| Educ inst, total.....                | 700            | 100                      | 100   | 100     | 0           | 0                         | 0      | 0          |
| 4-yr college/univ.....               | 200            | 100                      | 100   | 100     | 0           | 0                         | 0      | 0          |
| Other.....                           | 400            | 0                        | 0     | 0       | 0           | 0                         | 0      | 0          |
| Nonprofit orgs.....                  | 100            | 0                        | 0     | 0       | 0           | 0                         | 0      | 0          |
| Federal Government.....              | 200            | 100                      | 0     | 0       | 0           | 0                         | 0      | 0          |
| State/local govt.....                | 0              | 0                        | 0     | 0       | 0           | 0                         | 0      | 0          |
| Other.....                           | 200            | 100                      | 0     | 0       | 0           | 0                         | 0      | 0          |
| Math/statistics.....                 | 4,600          | 700                      | 100   | 300     | 400         | 600                       | 100    | 400        |
| Business and                         |                |                          |       |         |             |                           |        |            |
| Industry.....                        | 1,700          | 400                      | 0     | 200     | 200         | 300                       | 100    | 200        |
| Industry.....                        | 1,700          | 400                      | 0     | 200     | 200         | 300                       | 100    | 200        |
| Self employed.....                   | 0              | 0                        | 0     | 0       | 0           | 0                         | 0      | 0          |
| Educ inst, total.....                | 2,200          | 100                      | 100   | 100     | 0           | 0                         | 0      | 0          |
| 4-yr college/univ.....               | 500            | 100                      | 100   | 100     | 0           | 0                         | 0      | 0          |
| Other.....                           | 1,600          | 0                        | 0     | 0       | 0           | 0                         | 0      | 0          |
| Nonprofit orgs.....                  | 0              | 0                        | 0     | 0       | 0           | 0                         | 0      | 0          |
| Federal Government.....              | 0              | 0                        | 0     | 0       | 0           | 0                         | 0      | 0          |
| State/local govt.....                | 100            | 0                        | 0     | 0       | 0           | 0                         | 0      | 0          |
| Other.....                           | 400            | 100                      | 0     | 0       | 100         | 200                       | 0      | 200        |
| Computer science.....                | 9,300          | 2,600                    | 0     | 300     | 2,300       | 1,700                     | 700    | 1,000      |
| Business and                         |                |                          |       |         |             |                           |        |            |
| Industry.....                        | 7,200          | 2,400                    | 0     | 200     | 2,200       | 800                       | 390    | 500        |
| Industry.....                        | 7,000          | 2,300                    | 0     | 100     | 2,200       | 800                       | 300    | 500        |
| Self employed.....                   | 100            | 0                        | 0     | 0       | 0           | 0                         | 0      | 0          |
| Educ inst, total.....                | 600            | 100                      | 0     | 0       | 100         | 100                       | 0      | 100        |
| 4-yr college/univ.....               | 300            | 100                      | 0     | 0       | 100         | 0                         | 0      | 0          |
| Other.....                           | 300            | 0                        | 0     | 0       | 0           | 100                       | 0      | 0          |
| Nonprofit orgs.....                  | 100            | 0                        | 0     | 0       | 0           | 0                         | 0      | 0          |
| Federal Government.....              | 500            | 0                        | 0     | 0       | 0           | 100                       | 0      | 0          |
| State/local govt.....                | 100            | 100                      | 0     | 100     | 0           | 0                         | 0      | 0          |
| Other.....                           | 900            | 0                        | 0     | 0       | 0           | 600                       | 200    | 400        |

See explanatory information and SOURCE at end of table.

Table B-18. 1988 science and engineering master's-degree recipients, by field of degree, type of employer, and primary work activity: 1990

| Field of degree and type of employer | Primary work activity |                       |                               |       |                       |       |           |
|--------------------------------------|-----------------------|-----------------------|-------------------------------|-------|-----------------------|-------|-----------|
|                                      | Teaching              | Production/inspection | Reporting/stat work/computing | Sales | Professional services | Other | No report |
| Total, all fields.....               | 5,900                 | 3,800                 | 7,100                         | 600   | 600                   | 5,800 | 100       |
| Business and Industry.....           | 400                   | 2,900                 | 5,400                         | 400   | \$                    | 3,700 | \$        |
| Industry.....                        | 400                   | 2,800                 | 5,300                         | 400   | \$                    | 3,600 | \$        |
| Self employed.....                   | 100                   | 100                   | 200                           | \$    | \$                    | 100   | \$        |
| Educ inst, total.....                | 4,800                 | \$                    | 400                           | \$    | \$                    | 200   | \$        |
| 4-yr college/univ.....               | 1,300                 | \$                    | 300                           | \$    | \$                    | 100   | \$        |
| Other.....                           | 3,500                 | \$                    | 100                           | \$    | \$                    | \$    | \$        |
| Nonprofit orgs.....                  | 100                   | 200                   | 100                           | \$    | 400                   | 100   | \$        |
| Federal Government.....              | \$                    | 100                   | 600                           | 100   | \$                    | 800   | \$        |
| State/local govt.....                | 300                   | 100                   | 100                           | 100   | \$                    | 400   | \$        |
| Other.....                           | 300                   | 400                   | 400                           | \$    | 200                   | 700   | \$        |
| No report.....                       | \$                    | \$                    | \$                            | \$    | \$                    | \$    | 100       |
| Total sciences.....                  | 5,400                 | 2,000                 | 5,600                         | 400   | 600                   | 4,000 | \$        |
| Business and Industry.....           | 400                   | 1,400                 | 4,200                         | 200   | \$                    | 2,200 | \$        |
| Industry.....                        | 300                   | 1,300                 | 4,100                         | 200   | \$                    | 2,200 | \$        |
| Self employed.....                   | 100                   | 100                   | 100                           | \$    | \$                    | 100   | \$        |
| Educ inst, total.....                | 4,600                 | \$                    | 400                           | \$    | \$                    | 100   | \$        |
| 4-yr college/univ.....               | 1,200                 | \$                    | 300                           | \$    | \$                    | 100   | \$        |
| Other.....                           | 3,400                 | \$                    | 100                           | \$    | \$                    | \$    | \$        |
| Nonprofit orgs.....                  | 100                   | 200                   | 100                           | \$    | 400                   | 100   | \$        |
| Federal Government.....              | \$                    | 100                   | 500                           | 100   | \$                    | 700   | \$        |
| State/local govt.....                | 300                   | 100                   | 100                           | 100   | \$                    | 300   | \$        |
| Other.....                           | 100                   | 200                   | 300                           | \$    | 200                   | 500   | \$        |
| No report.....                       | \$                    | \$                    | \$                            | \$    | \$                    | \$    | \$        |
| Physical sciences.....               | 500                   | 400                   | 200                           | \$    | \$                    | 200   | \$        |
| Business and Industry.....           | 100                   | 200                   | 200                           | \$    | \$                    | 100   | \$        |
| Industry.....                        | 100                   | 200                   | 200                           | \$    | \$                    | 100   | \$        |
| Self employed.....                   | \$                    | \$                    | \$                            | \$    | \$                    | \$    | \$        |
| Educ inst, total.....                | 500                   | \$                    | \$                            | \$    | \$                    | \$    | \$        |
| 4-yr college/univ.....               | 100                   | \$                    | \$                            | \$    | \$                    | \$    | \$        |
| Other.....                           | 400                   | \$                    | \$                            | \$    | \$                    | \$    | \$        |
| Nonprofit orgs.....                  | \$                    | \$                    | \$                            | \$    | \$                    | \$    | \$        |
| Federal Government.....              | \$                    | 100                   | \$                            | \$    | \$                    | \$    | \$        |
| State/local govt.....                | \$                    | \$                    | \$                            | \$    | \$                    | \$    | \$        |
| Other.....                           | \$                    | 100                   | \$                            | \$    | \$                    | \$    | \$        |
| Math/statistics.....                 | 2,000                 | 200                   | 800                           | \$    | \$                    | 300   | \$        |
| Business and Industry.....           | \$                    | 100                   | 600                           | \$    | \$                    | 300   | \$        |
| Industry.....                        | \$                    | 100                   | 600                           | \$    | \$                    | 300   | \$        |
| Self employed.....                   | \$                    | \$                    | \$                            | \$    | \$                    | \$    | \$        |
| Educ inst, total.....                | 1,900                 | \$                    | 100                           | \$    | \$                    | \$    | \$        |
| 4-yr college/univ.....               | 300                   | \$                    | 100                           | \$    | \$                    | \$    | \$        |
| Other.....                           | 1,600                 | \$                    | \$                            | \$    | \$                    | \$    | \$        |
| Nonprofit orgs.....                  | \$                    | \$                    | \$                            | \$    | \$                    | \$    | \$        |
| Federal Government.....              | \$                    | \$                    | \$                            | \$    | \$                    | \$    | \$        |
| State/local govt.....                | \$                    | \$                    | \$                            | \$    | \$                    | \$    | \$        |
| Other.....                           | \$                    | 100                   | 100                           | \$    | \$                    | \$    | \$        |
| Computer science.....                | 400                   | 400                   | 3,200                         | 100   | \$                    | 900   | \$        |
| Business and Industry.....           | 100                   | 400                   | 2,800                         | 100   | \$                    | 600   | \$        |
| Industry.....                        | 100                   | 400                   | 2,700                         | 100   | \$                    | 600   | \$        |
| Self employed.....                   | \$                    | \$                    | 100                           | \$    | \$                    | \$    | \$        |
| Educ inst, total.....                | 300                   | \$                    | 100                           | \$    | \$                    | \$    | \$        |
| 4-yr college/univ.....               | \$                    | \$                    | 100                           | \$    | \$                    | \$    | \$        |
| Other.....                           | 200                   | \$                    | \$                            | \$    | \$                    | \$    | \$        |
| Nonprofit orgs.....                  | \$                    | \$                    | \$                            | \$    | \$                    | \$    | \$        |
| Federal Government.....              | \$                    | \$                    | 100                           | 100   | \$                    | 100   | \$        |
| State/local govt.....                | \$                    | \$                    | \$                            | \$    | \$                    | \$    | \$        |
| Other.....                           | \$                    | \$                    | 100                           | \$    | \$                    | 100   | \$        |

See explanatory information and SOURCE at end of table.

Table B-18. 1988 science and engineering master's-degree recipients, by field of degree, type of employer, and primary work activity: 1990

| Field of degree and type of employer | Total employed | Primary work activity    |       |         |             |                           |        |            |
|--------------------------------------|----------------|--------------------------|-------|---------|-------------|---------------------------|--------|------------|
|                                      |                | Research and development |       |         |             | Management/administration |        |            |
|                                      |                | Total                    | Basic | Applied | Development | Total                     | Of R&D | Of non-R&D |
| Environ science.....                 | 2,000          | 600                      | 100   | 300     | 200         | 200                       | 100    | 200        |
| Business and                         |                |                          |       |         |             |                           |        |            |
| Industry.....                        | 1,200          | 300                      | \$    | 200     | 100         | 100                       | \$     | \$         |
| Industry.....                        | 1,100          | 200                      | \$    | 200     | 100         | 100                       | \$     | \$         |
| Self employed.....                   | 100            | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Educ inst, total.....                | 200            | 100                      | \$    | \$      | \$          | \$                        | \$     | \$         |
| 4-yr college/univ.....               | 100            | 100                      | \$    | \$      | \$          | \$                        | \$     | \$         |
| Other.....                           | \$             | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Nonprofit orgs.....                  | \$             | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Federal Government.....              | 300            | 200                      | \$    | 100     | 100         | \$                        | \$     | 100        |
| State/local govt.....                | 200            | \$                       | \$    | \$      | \$          | 100                       | \$     | \$         |
| Other.....                           | 100            | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Life sciences.....                   | 5,600          | 2,100                    | 700   | 900     | 500         | 1,000                     | 500    | 500        |
| Business and                         |                |                          |       |         |             |                           |        |            |
| Industry.....                        | 1,600          | 700                      | \$    | 300     | 400         | 200                       | 100    | 100        |
| Industry.....                        | 1,500          | 700                      | \$    | 300     | 400         | 200                       | 100    | 100        |
| Self employed.....                   | 100            | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Educ inst, total.....                | 1,900          | 300                      | 200   | 100     | \$          | 300                       | 200    | \$         |
| 4-yr college/univ.....               | 1,000          | 300                      | 100   | 100     | \$          | 300                       | 200    | \$         |
| Other.....                           | 900            | 100                      | 100   | \$      | \$          | \$                        | \$     | \$         |
| Nonprofit orgs.....                  | 300            | \$                       | \$    | \$      | \$          | 100                       | \$     | 100        |
| Federal Government.....              | 900            | 700                      | 400   | 200     | \$          | 100                       | \$     | 100        |
| State/local govt.....                | 500            | 100                      | 100   | \$      | \$          | 300                       | 100    | 100        |
| Other.....                           | 500            | 200                      | 100   | 100     | \$          | \$                        | \$     | \$         |
| Psychology.....                      | 2,100          | 200                      | \$    | \$      | 100         | 400                       | 100    | 300        |
| Business and                         |                |                          |       |         |             |                           |        |            |
| Industry.....                        | 600            | 100                      | \$    | \$      | 100         | 200                       | \$     | 200        |
| Industry.....                        | 600            | 100                      | \$    | \$      | 100         | 200                       | \$     | 200        |
| Educ inst, total.....                | 400            | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| 4-yr college/univ.....               | 200            | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Other.....                           | 200            | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Nonprofit orgs.....                  | 600            | \$                       | \$    | \$      | \$          | 100                       | \$     | \$         |
| Federal Government.....              | 100            | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| State/local govt.....                | 200            | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Other.....                           | 300            | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| No report.....                       | \$             | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Social sciences.....                 | 5,900          | 700                      | 100   | 500     | 100         | 2,000                     | 200    | 1,800      |
| Business and                         |                |                          |       |         |             |                           |        |            |
| Industry.....                        | 2,400          | 300                      | \$    | 100     | 100         | 1,000                     | 100    | 900        |
| Industry.....                        | 2,200          | 200                      | \$    | 100     | \$          | 900                       | 100    | 800        |
| Self employed.....                   | 200            | \$                       | \$    | \$      | \$          | 100                       | \$     | 100        |
| Educ inst, total.....                | 1,000          | 200                      | 100   | 200     | \$          | 100                       | 100    | 100        |
| 4-yr college/univ.....               | 600            | 200                      | 100   | 100     | \$          | 100                       | 100    | 100        |
| Other.....                           | 300            | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Nonprofit orgs.....                  | 200            | 100                      | \$    | 100     | \$          | 100                       | \$     | 100        |
| Federal Government.....              | 1,100          | 100                      | \$    | 100     | \$          | 300                       | \$     | 300        |
| State/local govt.....                | 900            | 100                      | \$    | 100     | \$          | 300                       | \$     | 300        |
| Other.....                           | 400            | \$                       | \$    | \$      | \$          | 100                       | \$     | 100        |
| Total engineering.....               | 16,500         | 8,300                    | 300   | 1,300   | 6,700       | 2,200                     | 900    | 1,300      |
| Business and                         |                |                          |       |         |             |                           |        |            |
| Industry.....                        | 13,300         | 7,000                    | 100   | 900     | 6,000       | 1,700                     | 700    | 1,000      |
| Industry.....                        | 13,100         | 7,000                    | 100   | 800     | 6,000       | 1,700                     | 700    | 1,000      |
| Self employed.....                   | 100            | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Educ inst, total.....                | 600            | 200                      | 100   | 100     | \$          | \$                        | \$     | \$         |
| 4-yr college/univ.....               | 500            | 200                      | 100   | 100     | \$          | \$                        | \$     | \$         |
| Other.....                           | 100            | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Nonprofit orgs.....                  | 200            | 100                      | \$    | 100     | \$          | \$                        | \$     | \$         |
| Federal Government.....              | 1,000          | 600                      | \$    | 100     | 400         | 200                       | 100    | 100        |
| State/local govt.....                | 500            | 200                      | \$    | 100     | 100         | 100                       | \$     | 100        |
| Other.....                           | 900            | 200                      | \$    | 100     | 100         | 200                       | 100    | 100        |
| No report.....                       | 100            | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |

See explanatory information and SOURCE at end of table.

Table B-18. 1988 science and engineering master's-degree recipients, by field of degree, type of employer, and primary work activity: 1990

| Field of degree and type of employer | Primary work activity |                       |                               |       |                       |       |           |
|--------------------------------------|-----------------------|-----------------------|-------------------------------|-------|-----------------------|-------|-----------|
|                                      | Teaching              | Production/inspection | Reporting/stat work/computing | Sales | Professional services | Other | No report |
| Environ science.....                 | 100                   | 300                   | 300                           | S     | S                     | 500   | S         |
| Business and Industry.....           | S                     | 300                   | 200                           | S     | S                     | 400   | S         |
| Industry.....                        | S                     | 300                   | 200                           | S     | S                     | 400   | S         |
| Self employed.....                   | S                     | S                     | S                             | S     | S                     | S     | S         |
| Educ inst, total.....                | S                     | S                     | S                             | S     | S                     | S     | S         |
| 4-yr college/univ.....               | S                     | S                     | S                             | S     | S                     | S     | S         |
| Other.....                           | S                     | S                     | S                             | S     | S                     | S     | S         |
| Nonprofit orgs.....                  | S                     | S                     | S                             | S     | S                     | S     | S         |
| Federal Government.....              | S                     | S                     | 100                           | S     | S                     | S     | S         |
| State/local govt.....                | S                     | S                     | S                             | S     | S                     | S     | S         |
| Other.....                           | S                     | S                     | S                             | S     | S                     | S     | S         |
| Life sciences.....                   | 1,200                 | 300                   | 300                           | S     | 100                   | 600   | S         |
| Business and Industry.....           | S                     | 100                   | 100                           | S     | S                     | 300   | S         |
| Industry.....                        | S                     | 100                   | 100                           | S     | S                     | 300   | S         |
| Self employed.....                   | S                     | S                     | S                             | S     | S                     | S     | S         |
| Educ inst, total.....                | 1,000                 | S                     | 100                           | S     | S                     | 100   | S         |
| 4-yr college/univ.....               | 200                   | S                     | 100                           | S     | S                     | 100   | S         |
| Other.....                           | 800                   | S                     | S                             | S     | S                     | S     | S         |
| Nonprofit orgs.....                  | S                     | 100                   | S                             | S     | S                     | S     | S         |
| Federal Government.....              | S                     | S                     | 100                           | S     | S                     | S     | S         |
| State/local govt.....                | 100                   | S                     | S                             | S     | 100                   | 100   | S         |
| Other.....                           | S                     | S                     | S                             | S     | 100                   | 100   | S         |
| Psychology.....                      | 400                   | S                     | 100                           | S     | 500                   | 300   | S         |
| Business and Industry.....           | S                     | S                     | S                             | S     | S                     | 200   | S         |
| Industry.....                        | S                     | S                     | S                             | S     | S                     | 200   | S         |
| Educ inst, total.....                | 200                   | S                     | S                             | S     | S                     | S     | S         |
| 4-yr college/univ.....               | 100                   | S                     | S                             | S     | S                     | S     | S         |
| Other.....                           | 100                   | S                     | S                             | S     | S                     | S     | S         |
| Nonprofit orgs.....                  | S                     | S                     | S                             | S     | 400                   | S     | S         |
| Federal Government.....              | S                     | S                     | S                             | S     | S                     | S     | S         |
| State/local govt.....                | 100                   | S                     | S                             | S     | S                     | S     | S         |
| Other.....                           | S                     | S                     | S                             | S     | 100                   | 100   | S         |
| No report.....                       | S                     | S                     | S                             | S     | S                     | S     | S         |
| Social sciences.....                 | 900                   | 300                   | 500                           | 200   | S                     | 1,200 | S         |
| Business and Industry.....           | 100                   | 300                   | 300                           | 100   | S                     | 300   | S         |
| Industry.....                        | 100                   | 300                   | 300                           | 100   | S                     | 300   | S         |
| Self employed.....                   | S                     | S                     | S                             | S     | S                     | S     | S         |
| Educ inst, total.....                | 600                   | S                     | S                             | S     | S                     | S     | S         |
| 4-yr college/univ.....               | 300                   | S                     | S                             | S     | S                     | S     | S         |
| Other.....                           | 300                   | S                     | S                             | S     | S                     | S     | S         |
| Nonprofit orgs.....                  | S                     | S                     | S                             | S     | S                     | S     | S         |
| Federal Government.....              | S                     | S                     | S                             | 100   | S                     | 600   | S         |
| State/local govt.....                | S                     | 100                   | S                             | S     | S                     | 200   | S         |
| Other.....                           | S                     | S                     | 100                           | S     | S                     | 100   | S         |
| Total engineering.....               | 500                   | 1,900                 | 1,500                         | 200   | S                     | 1,800 | 100       |
| Business and Industry.....           | 100                   | 1,600                 | 1,200                         | 200   | S                     | 1,500 | S         |
| Industry.....                        | 100                   | 1,500                 | 1,200                         | 200   | S                     | 1,500 | S         |
| Self employed.....                   | S                     | S                     | S                             | S     | S                     | S     | S         |
| Educ inst, total.....                | 200                   | S                     | 100                           | S     | S                     | S     | S         |
| 4-yr college/univ.....               | 200                   | S                     | 100                           | S     | S                     | S     | S         |
| Other.....                           | 100                   | S                     | S                             | S     | S                     | S     | S         |
| Nonprofit orgs.....                  | S                     | S                     | S                             | S     | S                     | S     | S         |
| Federal Government.....              | S                     | S                     | 100                           | S     | S                     | S     | S         |
| State/local govt.....                | S                     | S                     | 100                           | S     | S                     | 100   | S         |
| Other.....                           | 200                   | 200                   | S                             | S     | S                     | 100   | S         |
| No report.....                       | S                     | S                     | S                             | S     | S                     | S     | 100       |

KEY: S = Data suppressed for statistical reasons  
 NOTES: Because of rounding, components may not add to totals.  
 Data exclude those on full-time graduate students.  
 SOURCE: National Science Foundation/SRS, 1990 New Entrants Survey



Table B-19. 1988 science and engineering (S&E) master's-degree recipients, by field of degree and field of employment: 1990

| Field of degree          | Total employed | Employed in non S&E occupation | Employed in S&E occupation | S&E field of employment |                   |                         |           |                  |
|--------------------------|----------------|--------------------------------|----------------------------|-------------------------|-------------------|-------------------------|-----------|------------------|
|                          |                |                                |                            | Chemistry               | Physics/astronomy | Other physical sciences | Math/stat | Computer science |
| Total, all fields.....   | 48,800         | 9,100                          | 39,800                     | 800                     | 400               | 800                     | 3,300     | 10,000           |
| Total sciences.....      | 32,300         | 7,700                          | 24,600                     | 700                     | 300               | 800                     | 3,000     | 8,000            |
| Physical sciences.....   | 2,700          | 300                            | 2,400                      | 700                     | 300               | 500                     | S         | 100              |
| Chemistry.....           | 1,200          | 100                            | 1,100                      | 600                     | S                 | 200                     | S         | S                |
| Physics/astronomy.....   | 1,000          | S                              | 900                        | S                       | 300               | S                       | S         | 100              |
| Other phys sciences..... | 600            | 100                            | 500                        | S                       | S                 | 300                     | S         | S                |
| Math/statistics.....     | 4,600          | 800                            | 3,800                      | S                       | S                 | S                       | 2,500     | 700              |
| Computer science.....    | 9,300          | 1,300                          | 8,000                      | S                       | S                 | S                       | 300       | 6,800            |
| Environ science.....     | 2,000          | 100                            | 1,900                      | S                       | S                 | 100                     | S         | 100              |
| Life sciences.....       | 5,600          | 1,100                          | 4,500                      | 100                     | S                 | 100                     | S         | 200              |
| Biology.....             | 3,400          | 600                            | 2,800                      | 100                     | S                 | 100                     | S         | S                |
| Agr science.....         | 2,200          | 500                            | 1,700                      | S                       | S                 | S                       | S         | 200              |
| Psychology.....          | 2,100          | 800                            | 1,300                      | S                       | S                 | S                       | S         | S                |
| Social sciences.....     | 5,900          | 3,300                          | 2,600                      | S                       | S                 | S                       | 100       | 100              |
| Economics.....           | 1,600          | 1,200                          | 400                        | S                       | S                 | S                       | S         | S                |
| Socio/anthro.....        | 900            | 400                            | 400                        | S                       | S                 | S                       | S         | S                |
| Other soc sciences.....  | 3,400          | 1,600                          | 1,800                      | S                       | S                 | S                       | 100       | 100              |
| Total engineering.....   | 16,500         | 1,400                          | 15,100                     | 100                     | 100               | S                       | 400       | 2,000            |
| Aero/astro.....          | 600            | 200                            | 500                        | S                       | S                 | S                       | S         | S                |
| Chemical.....            | 800            | S                              | 800                        | S                       | S                 | S                       | S         | S                |
| Civil.....               | 1,900          | 100                            | 1,800                      | S                       | S                 | S                       | S         | S                |
| Elect/electron.....      | 5,100          | 300                            | 4,800                      | S                       | S                 | S                       | 100       | 1,300            |
| Industrial.....          | 1,200          | 400                            | 800                        | S                       | S                 | S                       | 100       | 200              |
| Materials.....           | 500            | S                              | 500                        | S                       | S                 | S                       | S         | S                |
| Mechanical.....          | 3,500          | 200                            | 3,300                      | S                       | S                 | S                       | 100       | 200              |
| Mining.....              | 200            | S                              | 200                        | S                       | S                 | S                       | S         | S                |
| Nuclear.....             | 100            | S                              | 100                        | S                       | S                 | S                       | S         | S                |
| Petroleum.....           | 200            | S                              | 200                        | S                       | S                 | S                       | S         | S                |
| Other engineering.....   | 2,500          | 200                            | 2,300                      | S                       | S                 | S                       | 100       | 200              |

| Field of degree          | S&E field of employment |         |               |            |           |                          |                       |             |
|--------------------------|-------------------------|---------|---------------|------------|-----------|--------------------------|-----------------------|-------------|
|                          | Environ science         | Biology | Agric science | Psychology | Economics | Soc tology anthro-pology | Other social sciences | Engineering |
| Total, all fields.....   | 1,600                   | 2,500   | 2,200         | 1,200      | 300       | 300                      | 1,700                 | 14,600      |
| Total sciences.....      | 1,600                   | 2,500   | 1,900         | 1,200      | 300       | 300                      | 1,700                 | 2,400       |
| Physical sciences.....   | 100                     | 100     | S             | S          | S         | S                        | S                     | 500         |
| Chemistry.....           | S                       | 100     | S             | S          | S         | S                        | S                     | 100         |
| Physics/astronomy.....   | 100                     | S       | S             | S          | S         | S                        | S                     | 300         |
| Other phys sciences..... | S                       | S       | S             | S          | S         | S                        | S                     | 100         |
| Math/statistics.....     | S                       | S       | 100           | S          | S         | S                        | S                     | 500         |
| Computer science.....    | S                       | S       | S             | S          | S         | S                        | S                     | 900         |
| Environ science.....     | 1,400                   | S       | S             | S          | S         | S                        | S                     | 200         |
| Life sciences.....       | S                       | 2,300   | 1,600         | S          | S         | S                        | S                     | 200         |
| Biology.....             | S                       | 2,200   | 500           | S          | S         | S                        | S                     | S           |
| Agr science.....         | S                       | 200     | 1,200         | S          | S         | S                        | S                     | 200         |
| Psychology.....          | S                       | S       | S             | 1,100      | S         | S                        | 100                   | S           |
| Social sciences.....     | S                       | S       | 100           | 100        | 300       | 300                      | 1,600                 | 100         |
| Economics.....           | S                       | S       | S             | S          | 300       | S                        | 100                   | S           |
| Socio/anthro.....        | S                       | S       | S             | S          | S         | 300                      | 100                   | S           |
| Other soc sciences.....  | S                       | S       | S             | 100        | 100       | S                        | 1,400                 | S           |
| Total engineering.....   | 100                     | S       | 300           | S          | S         | S                        | S                     | 12,200      |
| Aero/astro.....          | S                       | S       | S             | S          | S         | S                        | S                     | 400         |
| Chemical.....            | S                       | S       | S             | S          | S         | S                        | S                     | 700         |
| Civil.....               | S                       | S       | 100           | S          | S         | S                        | S                     | 1,600       |
| Elect/electron.....      | S                       | S       | 200           | S          | S         | S                        | S                     | 3,200       |
| Industrial.....          | S                       | S       | S             | S          | S         | S                        | S                     | 500         |
| Materials.....           | S                       | S       | S             | S          | S         | S                        | S                     | 500         |
| Mechanical.....          | S                       | S       | S             | S          | S         | S                        | S                     | 3,000       |
| Mining.....              | S                       | S       | S             | S          | S         | S                        | S                     | 200         |
| Nuclear.....             | S                       | S       | S             | S          | S         | S                        | S                     | 100         |
| Petroleum.....           | S                       | S       | S             | S          | S         | S                        | S                     | 200         |
| Other engineering.....   | S                       | S       | S             | S          | S         | S                        | S                     | 1,900       |

KEY: S = Data suppressed for statistical reasons

NOTES: Because of rounding, components may not add to totals.  
Data exclude those on full-time graduate students.

SOURCE: National Science Foundation/SRS, 1990 New Entrants Survey



Table B-20. 1988 science and engineering (S&E) master's-degree recipients employed in S&E occupations, by field of degree, type of employer, and primary work activity: 1990

| Field of degree         | Employed in S&E occupation | Primary work activity    |       |         |             |                           |        |            |
|-------------------------|----------------------------|--------------------------|-------|---------|-------------|---------------------------|--------|------------|
|                         |                            | Research and development |       |         |             | Management/administration |        |            |
|                         |                            | Total                    | Basic | Applied | Development | Total                     | Of R&D | Of non-R&D |
| Total, all fields.....  | 39,800                     | 15,500                   | 1,500 | 3,800   | 10,200      | 4,900                     | 2,100  | 2,800      |
| Business and            |                            |                          |       |         |             |                           |        |            |
| Industry.....           | 25,200                     | 11,400                   | 200   | 2,100   | 9,000       | 2,700                     | 1,200  | 1,600      |
| Industry.....           | 24,700                     | 11,300                   | 200   | 2,100   | 9,000       | 2,700                     | 1,200  | 1,600      |
| Self employed.....      | 500                        | 100                      | \$    | 100     | \$          | \$                        | \$     | \$         |
| Educ inst, total.....   | 5,800                      | 1,100                    | 600   | 300     | 200         | 300                       | 300    | 100        |
| 4-yr college/univ.....  | 2,700                      | 1,000                    | 500   | 300     | 200         | 200                       | 200    | \$         |
| Other.....              | 3,000                      | 200                      | 100   | 100     | \$          | 100                       | \$     | 100        |
| Nonprofit orgs.....     | 1,200                      | 300                      | 100   | 200     | \$          | 200                       | 100    | 100        |
| Federal Government..... | 3,500                      | 1,600                    | 500   | 600     | 600         | 500                       | 300    | 200        |
| State/local govt.....   | 1,700                      | 500                      | 100   | 200     | 200         | 600                       | 100    | 400        |
| Other.....              | 2,300                      | 600                      | 100   | 300     | 200         | 600                       | 200    | 400        |
| No report.....          | \$                         | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Total sciences.....     | 24,600                     | 7,600                    | 1,300 | 2,500   | 3,800       | 3,000                     | 1,200  | 1,800      |
| Business and            |                            |                          |       |         |             |                           |        |            |
| Industry.....           | 13,100                     | 4,800                    | 200   | 1,300   | 3,300       | 1,400                     | 600    | 800        |
| Industry.....           | 12,700                     | 4,700                    | 200   | 1,200   | 3,300       | 1,400                     | 600    | 800        |
| Self employed.....      | 400                        | 100                      | \$    | \$      | \$          | \$                        | \$     | \$         |
| Educ inst, total.....   | 5,200                      | 900                      | 500   | 300     | 200         | 300                       | 200    | 100        |
| 4-yr college/univ.....  | 2,300                      | 800                      | 400   | 200     | 200         | 200                       | 200    | \$         |
| Other.....              | 3,000                      | 100                      | 100   | 100     | \$          | 100                       | \$     | 100        |
| Nonprofit orgs.....     | 1,100                      | 200                      | \$    | 100     | \$          | 200                       | 100    | 100        |
| Federal Government..... | 2,500                      | 1,100                    | 400   | 500     | 200         | 300                       | 100    | 100        |
| State/local govt.....   | 1,300                      | 300                      | 100   | 200     | \$          | 400                       | 100    | 400        |
| Other.....              | 1,500                      | 300                      | 100   | 200     | 100         | 400                       | 100    | 300        |
| Physical sciences.....  | 2,400                      | 1,200                    | 200   | 400     | 600         | 100                       | \$     | \$         |
| Business and            |                            |                          |       |         |             |                           |        |            |
| Industry.....           | 1,400                      | 900                      | 100   | 400     | 500         | \$                        | \$     | \$         |
| Industry.....           | 1,400                      | 900                      | 100   | 400     | 500         | \$                        | \$     | \$         |
| Educ inst, total.....   | 600                        | 100                      | 100   | \$      | \$          | \$                        | \$     | \$         |
| 4-yr college/univ.....  | 200                        | 100                      | 100   | \$      | \$          | \$                        | \$     | \$         |
| Other.....              | 400                        | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Nonprofit orgs.....     | 100                        | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Federal Government..... | 200                        | 100                      | \$    | \$      | \$          | \$                        | \$     | \$         |
| State/local govt.....   | \$                         | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Other.....              | 100                        | 100                      | \$    | \$      | \$          | \$                        | \$     | \$         |
| Math/statistics.....    | 3,800                      | 600                      | \$    | 300     | 300         | 400                       | 100    | 200        |
| Business and            |                            |                          |       |         |             |                           |        |            |
| Industry.....           | 1,600                      | 400                      | \$    | 200     | 200         | 200                       | 100    | 100        |
| Industry.....           | 1,600                      | 400                      | \$    | 200     | 200         | 200                       | 100    | 100        |
| Educ inst, total.....   | 1,700                      | 100                      | \$    | \$      | \$          | \$                        | \$     | \$         |
| 4-yr college/univ.....  | 500                        | 100                      | \$    | \$      | \$          | \$                        | \$     | \$         |
| Other.....              | 1,300                      | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Nonprofit orgs.....     | \$                         | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Federal Government..... | \$                         | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| State/local govt.....   | 100                        | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Other.....              | 300                        | \$                       | \$    | \$      | \$          | 100                       | \$     | 100        |
| Computer science.....   | 8,000                      | 2,500                    | \$    | 300     | 2,200       | 1,200                     | 600    | 600        |
| Business and            |                            |                          |       |         |             |                           |        |            |
| Industry.....           | 6,600                      | 2,300                    | \$    | 200     | 2,100       | 700                       | 300    | 400        |
| Industry.....           | 6,500                      | 2,200                    | \$    | 100     | 2,100       | 700                       | 300    | 400        |
| Self employed.....      | 100                        | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Educ inst, total.....   | 400                        | 100                      | \$    | \$      | 100         | 100                       | \$     | \$         |
| 4-yr college/univ.....  | 200                        | 100                      | \$    | \$      | 100         | \$                        | \$     | \$         |
| Other.....              | 200                        | \$                       | \$    | \$      | \$          | 100                       | \$     | \$         |
| Nonprofit orgs.....     | 100                        | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Federal Government..... | 400                        | \$                       | \$    | \$      | \$          | 100                       | 100    | \$         |
| State/local govt.....   | 100                        | 100                      | \$    | 100     | \$          | \$                        | \$     | \$         |
| Other.....              | 400                        | \$                       | \$    | \$      | \$          | 200                       | 100    | 100        |

See explanatory information and SOURCE at end of table.

Table B-20. 1988 science and engineering (S&E) master's-degree recipients employed in S&E occupations, by field of degree, type of employer, and primary work activity: 1990

| Field of degree        | Primary work activity |                       |                               |       |                       |       |           |
|------------------------|-----------------------|-----------------------|-------------------------------|-------|-----------------------|-------|-----------|
|                        | Teaching              | Production/inspection | Reporting/stat work/computing | Sales | Professional services | Other | No report |
| Total, all fields..... | 4,400                 | 3,200                 | 6,400                         | 100   | 600                   | 4,600 | 5         |
| Business and           |                       |                       |                               |       |                       |       |           |
| Industry.....          | 300                   | 2,500                 | 5,100                         | 100   | 5                     | 3,000 | 5         |
| Industry.....          | 200                   | 2,400                 | 5,000                         | 100   | 5                     | 3,000 | 5         |
| Self employed....      | 100                   | 100                   | 200                           | 5     | 5                     | 100   | 5         |
| Educ inst, total....   | 3,700                 | 5                     | 400                           | 5     | 5                     | 100   | 5         |
| 4-yr college/univ....  | 1,100                 | 5                     | 300                           | 5     | 5                     | 100   | 5         |
| Other.....             | 2,600                 | 5                     | 100                           | 5     | 5                     | 5     | 5         |
| Nonprofit orgs.....    | 5                     | 200                   | 100                           | 5     | 300                   | 100   | 5         |
| Federal Government..   | 5                     | 100                   | 500                           | 100   | 5                     | 700   | 5         |
| State/local govt....   | 200                   | 100                   | 100                           | 5     | 5                     | 300   | 5         |
| Other.....             | 200                   | 300                   | 200                           | 5     | 200                   | 400   | 5         |
| No report.....         | 5                     | 5                     | 5                             | 5     | 5                     | 5     | 5         |
| Total sciences.....    | 3,900                 | 1,400                 | 5,000                         | 100   | 600                   | 3,100 | 5         |
| Business and           |                       |                       |                               |       |                       |       |           |
| Industry.....          | 200                   | 1,000                 | 3,900                         | 5     | 5                     | 1,700 | 5         |
| Industry.....          | 200                   | 900                   | 3,800                         | 5     | 5                     | 1,600 | 5         |
| Self employed....      | 100                   | 100                   | 100                           | 5     | 5                     | 5     | 5         |
| Educ inst, total....   | 3,500                 | 5                     | 400                           | 5     | 5                     | 100   | 5         |
| 4-yr college/univ....  | 900                   | 5                     | 300                           | 5     | 5                     | 100   | 5         |
| Other.....             | 2,600                 | 5                     | 100                           | 5     | 5                     | 5     | 5         |
| Nonprofit orgs.....    | 5                     | 200                   | 100                           | 5     | 300                   | 100   | 5         |
| Federal Government..   | 5                     | 100                   | 400                           | 100   | 5                     | 700   | 5         |
| State/local govt....   | 200                   | 5                     | 5                             | 5     | 5                     | 200   | 5         |
| Other.....             | 5                     | 100                   | 200                           | 5     | 200                   | 300   | 5         |
| Physical sciences..... | 500                   | 300                   | 200                           | 5     | 5                     | 100   | 5         |
| Business and           |                       |                       |                               |       |                       |       |           |
| Industry.....          | 100                   | 200                   | 200                           | 5     | 5                     | 100   | 5         |
| Industry.....          | 100                   | 200                   | 200                           | 5     | 5                     | 100   | 5         |
| Educ inst, total....   | 400                   | 5                     | 5                             | 5     | 5                     | 5     | 5         |
| 4-yr college/univ....  | 100                   | 5                     | 5                             | 5     | 5                     | 5     | 5         |
| Other.....             | 400                   | 5                     | 5                             | 5     | 5                     | 5     | 5         |
| Nonprofit orgs.....    | 5                     | 5                     | 5                             | 5     | 5                     | 5     | 5         |
| Federal Government..   | 5                     | 100                   | 5                             | 5     | 5                     | 5     | 5         |
| State/local govt....   | 5                     | 5                     | 5                             | 5     | 5                     | 5     | 5         |
| Other.....             | 5                     | 5                     | 5                             | 5     | 5                     | 5     | 5         |
| Math/statistics.....   | 1,600                 | 200                   | 800                           | 5     | 5                     | 300   | 5         |
| Business and           |                       |                       |                               |       |                       |       |           |
| Industry.....          | 5                     | 100                   | 500                           | 5     | 5                     | 300   | 5         |
| Industry.....          | 5                     | 100                   | 500                           | 5     | 5                     | 300   | 5         |
| Educ inst, total....   | 1,600                 | 5                     | 100                           | 5     | 5                     | 5     | 5         |
| 4-yr college/univ....  | 300                   | 5                     | 100                           | 5     | 5                     | 5     | 5         |
| Other.....             | 1,300                 | 5                     | 5                             | 5     | 5                     | 5     | 5         |
| Nonprofit orgs.....    | 5                     | 5                     | 5                             | 5     | 5                     | 5     | 5         |
| Federal Government..   | 5                     | 5                     | 5                             | 5     | 5                     | 5     | 5         |
| State/local govt....   | 5                     | 5                     | 5                             | 5     | 5                     | 5     | 5         |
| Other.....             | 5                     | 5                     | 100                           | 5     | 5                     | 5     | 5         |
| Computer science.....  | 200                   | 300                   | 3,000                         | 100   | 5                     | 700   | 5         |
| Business and           |                       |                       |                               |       |                       |       |           |
| Industry.....          | 100                   | 300                   | 2,700                         | 5     | 5                     | 500   | 5         |
| Industry.....          | 100                   | 300                   | 2,600                         | 5     | 5                     | 500   | 5         |
| Self employed....      | 5                     | 5                     | 100                           | 5     | 5                     | 5     | 5         |
| Educ inst, total....   | 100                   | 5                     | 100                           | 5     | 5                     | 5     | 5         |
| 4-yr college/univ....  | 5                     | 5                     | 100                           | 5     | 5                     | 5     | 5         |
| Other.....             | 100                   | 5                     | 5                             | 5     | 5                     | 5     | 5         |
| Nonprofit orgs.....    | 5                     | 5                     | 5                             | 5     | 5                     | 5     | 5         |
| Federal Government..   | 5                     | 5                     | 100                           | 100   | 5                     | 100   | 5         |
| State/local govt....   | 5                     | 5                     | 5                             | 5     | 5                     | 5     | 5         |
| Other.....             | 5                     | 5                     | 100                           | 5     | 5                     | 100   | 5         |

See explanatory information and SOURCE at end of table.

Table B-20. 1988 science and engineering (S&E) master's-degree recipients employed in S&E occupations, by field of degree, type of employer, and primary work activity: 1990

| Field of degree         | Employed in S&E occupation | Primary work activity    |       |         |             |                           |        |            |
|-------------------------|----------------------------|--------------------------|-------|---------|-------------|---------------------------|--------|------------|
|                         |                            | Research and development |       |         |             | Management/administration |        |            |
|                         |                            | Total                    | Basic | Applied | Development | Total                     | Of R&D | Of non-R&D |
| Environ science.....    | 1,900                      | 600                      | 100   | 300     | 200         | 200                       | 100    | 100        |
| Business and            |                            |                          |       |         |             |                           |        |            |
| Industry.....           | 1,200                      | 300                      | 5     | 200     | 100         | 5                         | 5      | 5          |
| Self employed.....      | 1,100                      | 200                      | 5     | 200     | 100         | 5                         | 5      | 5          |
| Educ inst, total.....   | 200                        | 100                      | 100   | 5       | 5           | 5                         | 5      | 5          |
| 4-yr college/univ.....  | 100                        | 100                      | 100   | 5       | 5           | 5                         | 5      | 5          |
| Other.....              | 5                          | 5                        | 5     | 5       | 5           | 5                         | 5      | 5          |
| Nonprofit orgs.....     | 5                          | 5                        | 5     | 5       | 5           | 5                         | 5      | 5          |
| Federal Government..... | 300                        | 200                      | 5     | 100     | 100         | 5                         | 5      | 5          |
| State/local govt.....   | 100                        | 5                        | 5     | 5       | 5           | 5                         | 5      | 5          |
| Other.....              | 100                        | 5                        | 5     | 5       | 5           | 5                         | 5      | 5          |
| Life sciences.....      | 4,500                      | 2,000                    | 700   | 900     | 400         | 600                       | 300    | 300        |
| Business and            |                            |                          |       |         |             |                           |        |            |
| Industry.....           | 1,200                      | 600                      | 5     | 300     | 300         | 200                       | 100    | 100        |
| Self employed.....      | 1,100                      | 600                      | 5     | 300     | 300         | 200                       | 100    | 100        |
| Educ inst, total.....   | 1,600                      | 300                      | 200   | 100     | 5           | 200                       | 200    | 5          |
| 4-yr college/univ.....  | 800                        | 300                      | 100   | 100     | 5           | 200                       | 200    | 5          |
| Other.....              | 800                        | 100                      | 100   | 5       | 5           | 5                         | 5      | 5          |
| Nonprofit orgs.....     | 300                        | 5                        | 5     | 5       | 5           | 5                         | 5      | 5          |
| Federal Government..... | 800                        | 700                      | 400   | 200     | 5           | 5                         | 5      | 5          |
| State/local govt.....   | 400                        | 100                      | 100   | 5       | 200         | 5                         | 5      | 100        |
| Other.....              | 400                        | 200                      | 100   | 100     | 5           | 5                         | 5      | 5          |
| Psychology.....         | 1,300                      | 200                      | 5     | 5       | 100         | 5                         | 5      | 5          |
| Business and            |                            |                          |       |         |             |                           |        |            |
| Industry.....           | 300                        | 5                        | 5     | 5       | 5           | 5                         | 5      | 5          |
| Self employed.....      | 300                        | 5                        | 5     | 5       | 5           | 5                         | 5      | 5          |
| Educ inst, total.....   | 300                        | 5                        | 5     | 5       | 5           | 5                         | 5      | 5          |
| 4-yr college/univ.....  | 200                        | 5                        | 5     | 5       | 5           | 5                         | 5      | 5          |
| Other.....              | 100                        | 5                        | 5     | 5       | 5           | 5                         | 5      | 5          |
| Nonprofit orgs.....     | 400                        | 5                        | 5     | 5       | 5           | 5                         | 5      | 5          |
| Federal Government..... | 5                          | 5                        | 5     | 5       | 5           | 5                         | 5      | 5          |
| State/local govt.....   | 100                        | 5                        | 5     | 5       | 5           | 5                         | 5      | 5          |
| Other.....              | 200                        | 5                        | 5     | 5       | 5           | 5                         | 5      | 5          |
| Social sciences.....    | 2,600                      | 400                      | 100   | 300     | 100         | 600                       | 200    | 400        |
| Business and            |                            |                          |       |         |             |                           |        |            |
| Industry.....           | 800                        | 200                      | 5     | 100     | 100         | 200                       | 100    | 100        |
| Self employed.....      | 700                        | 200                      | 5     | 100     | 5           | 200                       | 100    | 100        |
| Educ inst, total.....   | 100                        | 5                        | 5     | 5       | 5           | 5                         | 5      | 5          |
| 4-yr college/univ.....  | 200                        | 100                      | 100   | 5       | 5           | 5                         | 5      | 5          |
| Other.....              | 200                        | 5                        | 5     | 5       | 5           | 5                         | 5      | 5          |
| Nonprofit orgs.....     | 200                        | 100                      | 5     | 100     | 5           | 100                       | 5      | 100        |
| Federal Government..... | 700                        | 5                        | 5     | 5       | 5           | 5                         | 5      | 5          |
| State/local govt.....   | 500                        | 5                        | 5     | 5       | 5           | 200                       | 5      | 200        |
| Other.....              | 100                        | 5                        | 5     | 5       | 5           | 5                         | 5      | 5          |
| Total engineering.....  | 15,100                     | 7,900                    | 200   | 1,300   | 6,400       | 1,900                     | 800    | 1,000      |
| Business and            |                            |                          |       |         |             |                           |        |            |
| Industry.....           | 12,100                     | 6,600                    | 100   | 900     | 5,700       | 1,300                     | 600    | 700        |
| Self employed.....      | 12,000                     | 6,600                    | 100   | 800     | 5,700       | 1,300                     | 600    | 700        |
| Educ inst, total.....   | 100                        | 5                        | 5     | 5       | 5           | 5                         | 5      | 5          |
| 4-yr college/univ.....  | 500                        | 200                      | 100   | 100     | 5           | 5                         | 5      | 5          |
| Other.....              | 500                        | 200                      | 100   | 100     | 5           | 5                         | 5      | 5          |
| Nonprofit orgs.....     | 100                        | 5                        | 5     | 5       | 5           | 5                         | 5      | 5          |
| Federal Government..... | 200                        | 100                      | 5     | 100     | 5           | 5                         | 5      | 5          |
| State/local govt.....   | 1,000                      | 600                      | 5     | 100     | 400         | 200                       | 100    | 100        |
| Other.....              | 400                        | 200                      | 5     | 100     | 100         | 100                       | 5      | 100        |
| No report.....          | 800                        | 200                      | 5     | 100     | 100         | 200                       | 100    | 100        |
|                         | 5                          | 5                        | 5     | 5       | 5           | 5                         | 5      | 5          |

See explanatory information and SOURCE at end of table.

Table B-20. 1988 science and engineering (S&E) master's-degree recipients employed in S&E occupations, by field of degree, type of employer, and primary work activity: 1990

| Field of degree         | Primary work activity |                       |                               |       |                       |       |           |
|-------------------------|-----------------------|-----------------------|-------------------------------|-------|-----------------------|-------|-----------|
|                         | Teaching              | Production/inspection | Reporting/stat work/computing | Sales | Professional services | Other | No report |
| Environ science.....    | 100                   | 300                   | 300                           | S     | S                     | 500   | S         |
| Business and            |                       |                       |                               |       |                       |       |           |
| Industry.....           | S                     | 300                   | 200                           | S     | S                     | 400   | S         |
| Industry.....           |                       | 300                   | 200                           |       |                       | 400   |           |
| Self employed.....      |                       |                       |                               |       |                       |       |           |
| Educ inst, total.....   |                       |                       |                               |       |                       |       |           |
| 4-yr college/univ.....  |                       |                       |                               |       |                       |       |           |
| Other.....              |                       |                       |                               |       |                       |       |           |
| Nonprofit orgs.....     |                       |                       | 100                           |       |                       |       |           |
| Federal Government..... |                       |                       |                               |       |                       |       |           |
| State/local govt.....   |                       |                       |                               |       |                       |       |           |
| Other.....              |                       |                       |                               |       |                       |       |           |
| Life sciences.....      | 900                   | 300                   | 300                           | S     | 100                   | 400   | S         |
| Business and            |                       |                       |                               |       |                       |       |           |
| Industry.....           | S                     | 100                   | 100                           | S     | S                     | 200   | S         |
| Industry.....           |                       |                       | 100                           |       |                       | 100   |           |
| Self employed.....      |                       |                       |                               |       |                       |       |           |
| Educ inst, total.....   | 900                   |                       | 100                           |       |                       | 100   |           |
| 4-yr college/univ.....  | 200                   |                       | 100                           |       |                       | 100   |           |
| Other.....              | 700                   |                       |                               |       |                       |       |           |
| Nonprofit orgs.....     |                       | 200                   |                               |       |                       |       |           |
| Federal Government..... |                       |                       | 100                           |       |                       |       |           |
| State/local govt.....   |                       |                       |                               |       |                       |       |           |
| Other.....              |                       |                       |                               |       | 100                   | 100   |           |
| Psychology.....         | 300                   | S                     | 100                           | S     | 500                   | 300   | S         |
| Business and            |                       |                       |                               |       |                       |       |           |
| Industry.....           | S                     |                       |                               |       |                       | 200   | S         |
| Industry.....           |                       |                       |                               |       |                       | 200   |           |
| Self employed.....      |                       |                       |                               |       |                       |       |           |
| Educ inst, total.....   | 200                   |                       |                               |       |                       |       |           |
| 4-yr college/univ.....  | 100                   |                       |                               |       |                       |       |           |
| Other.....              |                       |                       |                               |       |                       |       |           |
| Nonprofit orgs.....     |                       |                       |                               |       | 300                   |       |           |
| Federal Government..... |                       |                       |                               |       |                       |       |           |
| State/local govt.....   | 100                   |                       |                               |       |                       |       |           |
| Other.....              | S                     |                       |                               |       | 100                   | 100   |           |
| Social sciences.....    | 400                   | 100                   | 300                           | S     | S                     | 800   | S         |
| Business and            |                       |                       |                               |       |                       |       |           |
| Industry.....           | S                     | 100                   | 200                           | S     | S                     | 100   | S         |
| Industry.....           |                       | 100                   | 200                           |       |                       | 100   |           |
| Self employed.....      |                       |                       |                               |       |                       |       |           |
| Educ inst, total.....   | 300                   |                       |                               |       |                       |       |           |
| 4-yr college/univ.....  | 200                   |                       |                               |       |                       |       |           |
| Other.....              | 100                   |                       |                               |       |                       |       |           |
| Nonprofit orgs.....     |                       |                       |                               |       |                       |       |           |
| Federal Government..... |                       |                       |                               |       |                       | 600   |           |
| State/local govt.....   |                       |                       |                               |       |                       | 200   |           |
| Other.....              |                       |                       |                               |       |                       | 100   |           |
| Total engineering.....  | 400                   | 1,800                 | 1,500                         | S     | S                     | 1,600 | S         |
| Business and            |                       |                       |                               |       |                       |       |           |
| Industry.....           | 100                   | 1,500                 | 1,200                         | S     | S                     | 1,400 | S         |
| Industry.....           | 100                   | 1,500                 | 1,200                         |       |                       | 1,400 |           |
| Self employed.....      |                       |                       |                               |       |                       |       |           |
| Educ inst, total.....   | 200                   |                       |                               |       |                       |       |           |
| 4-yr college/univ.....  | 100                   |                       |                               |       |                       |       |           |
| Other.....              | 100                   |                       |                               |       |                       |       |           |
| Nonprofit orgs.....     |                       |                       |                               |       |                       |       |           |
| Federal Government..... |                       |                       | 100                           |       |                       |       |           |
| State/local govt.....   |                       |                       | 100                           |       |                       |       |           |
| Other.....              | 100                   | 200                   |                               |       |                       | 100   |           |
| No report.....          | S                     | S                     | S                             | S     | S                     | S     | S         |

KEY: S = Data suppressed for statistical reasons  
 NOTES: Because of rounding, components may not add to totals.  
 Data exclude those on full-time graduate students.  
 SOURCE: National Science Foundation/SRS, 1990 New Entrants Survey

Table B-21. 1989 science and engineering bachelor's-degree recipients, by field of degree, sex, and graduate school status: 1990

| Field of degree and sex | Total   | Graduate school status |                   |            |       |           |
|-------------------------|---------|------------------------|-------------------|------------|-------|-----------|
|                         |         | Full-time student      | Part-time student | Nonstudent | Other | No report |
| Total, all fields.....  | 322,600 | 61,800                 | 29,800            | 225,900    | 4,700 | 400       |
| Men.....                | 194,000 | 35,000                 | 16,800            | 139,500    | 2,600 | 100       |
| Women.....              | 128,600 | 26,900                 | 13,000            | 86,400     | 2,100 | 400       |
| Total sciences.....     | 247,400 | 51,800                 | 22,100            | 169,200    | 4,000 | 400       |
| Men.....                | 130,900 | 27,000                 | 10,600            | 91,200     | 2,000 | 100       |
| Women.....              | 116,600 | 24,800                 | 11,500            | 77,900     | 2,000 | 300       |
| Physical sciences.....  | 14,300  | 5,700                  | 1,200             | 7,300      | 100   | S         |
| Men.....                | 9,300   | 3,800                  | 900               | 4,600      | 100   | S         |
| Women.....              | 5,000   | 1,900                  | 400               | 2,700      | S     | S         |
| Chemistry.....          | 8,500   | 3,600                  | 600               | 4,200      | S     | S         |
| Men.....                | 4,600   | 1,900                  | 300               | 2,300      | S     | S         |
| Women.....              | 3,900   | 1,700                  | 200               | 1,900      | S     | S         |
| Physics/astronomy.....  | 4,500   | 1,700                  | 600               | 2,300      | S     | S         |
| Men.....                | 3,900   | 1,500                  | 500               | 1,900      | S     | S         |
| Women.....              | 600     | 200                    | 100               | 300        | S     | S         |
| Other phys sciences...  | 1,300   | 400                    | 100               | 800        | S     | S         |
| Men.....                | 800     | 300                    | 100               | 300        | S     | S         |
| Women.....              | 500     | S                      | S                 | 400        | S     | S         |
| Math/statistics.....    | 18,700  | 3,700                  | 1,200             | 13,300     | 500   | S         |
| Men.....                | 9,700   | 2,300                  | 500               | 6,700      | 200   | S         |
| Women.....              | 8,900   | 1,400                  | 700               | 6,600      | 200   | S         |
| Computer science.....   | 34,400  | 2,400                  | 2,800             | 28,800     | 200   | 100       |
| Men.....                | 26,300  | 2,000                  | 1,900             | 22,100     | 200   | 100       |
| Women.....              | 8,100   | 400                    | 1,000             | 6,600      | 100   | 100       |
| Environ science.....    | 3,400   | 1,000                  | 200               | 2,200      | S     | S         |
| Men.....                | 2,200   | 500                    | 200               | 1,500      | S     | S         |
| Women.....              | 1,200   | 500                    | S                 | 700        | S     | S         |
| Life sciences.....      | 52,800  | 15,000                 | 3,900             | 33,500     | 500   | S         |
| Men.....                | 25,400  | 6,800                  | 1,700             | 16,600     | 200   | S         |
| Women.....              | 27,400  | 8,100                  | 2,100             | 16,800     | 300   | S         |
| Biology.....            | 37,800  | 12,600                 | 2,800             | 21,900     | 500   | S         |
| Men.....                | 16,600  | 5,900                  | 1,000             | 9,500      | 200   | S         |
| Women.....              | 21,200  | 6,700                  | 1,800             | 12,500     | 300   | S         |
| Agr science.....        | 15,000  | 2,400                  | 1,100             | 11,500     | S     | S         |
| Men.....                | 8,800   | 900                    | 700               | 7,200      | S     | S         |
| Women.....              | 6,200   | 1,500                  | 400               | 4,400      | S     | S         |
| Psychology.....         | 44,200  | 9,600                  | 6,300             | 27,700     | 400   | 200       |
| Men.....                | 14,100  | 3,400                  | 2,300             | 8,400      | S     | S         |
| Women.....              | 30,100  | 6,200                  | 4,000             | 19,300     | 400   | 200       |
| Social sciences.....    | 79,700  | 14,300                 | 6,500             | 56,500     | 2,400 | S         |
| Men.....                | 43,800  | 8,100                  | 3,100             | 31,300     | 1,300 | S         |
| Women.....              | 35,900  | 6,300                  | 3,400             | 25,100     | 1,100 | S         |
| Economics.....          | 24,200  | 2,700                  | 1,400             | 19,300     | 800   | S         |
| Men.....                | 18,600  | 2,300                  | 1,200             | 14,400     | 600   | S         |
| Women.....              | 5,600   | 300                    | 200               | 4,900      | 200   | S         |
| Socio/anthro.....       | 18,700  | 3,300                  | 2,500             | 12,500     | 400   | S         |
| Men.....                | 6,500   | 1,000                  | 1,000             | 4,000      | 400   | S         |
| Women.....              | 12,200  | 2,300                  | 1,500             | 8,400      | S     | S         |
| Other soc sciences....  | 36,800  | 8,400                  | 2,600             | 24,700     | 1,200 | S         |
| Men.....                | 18,700  | 4,700                  | 900               | 12,900     | 200   | S         |
| Women.....              | 18,100  | 3,600                  | 1,700             | 11,800     | 1,000 | S         |

See explanatory information and SOURCE at end of table.

Table B-21. 1989 science and engineering bachelor's-degree recipients,  
by field of degree, sex, and graduate school status: 1990

| Field of degree and sex | Total  | Graduate school status |                   |            |       |           |
|-------------------------|--------|------------------------|-------------------|------------|-------|-----------|
|                         |        | Full-time student      | Part-time student | Nonstudent | Other | No report |
| Total engineering.....  | 75,200 | 10,100                 | 7,700             | 56,700     | 600   | 100       |
| Men.....                | 63,100 | 8,000                  | 6,200             | 48,300     | 600   | S         |
| Women.....              | 12,100 | 2,100                  | 1,500             | 8,400      | S     | 100       |
| Aero/astro.....         | 3,400  | 400                    | 100               | 2,800      | S     | S         |
| Men.....                | 3,100  | 400                    | 100               | 2,600      | S     | S         |
| Women.....              | 200    | S                      | S                 | 200        | S     | S         |
| Chemical.....           | 4,000  | 700                    | 200               | 3,200      | S     | S         |
| Men.....                | 2,800  | 500                    | 100               | 2,200      | S     | S         |
| Women.....              | 1,200  | 200                    | 100               | 1,000      | S     | S         |
| Civil.....              | 7,600  | 900                    | 400               | 6,300      | S     | S         |
| Men.....                | 6,500  | 700                    | 400               | 5,500      | S     | S         |
| Women.....              | 1,100  | 200                    | 100               | 800        | S     | S         |
| Elect/electron.....     | 28,300 | 3,600                  | 3,800             | 20,400     | 400   | S         |
| Men.....                | 24,400 | 2,900                  | 3,200             | 18,000     | 400   | S         |
| Women.....              | 3,800  | 700                    | 700               | 2,400      | S     | S         |
| Industrial.....         | 5,700  | 400                    | 500               | 4,900      | S     | S         |
| Men.....                | 4,100  | 200                    | 300               | 3,500      | S     | S         |
| Women.....              | 1,700  | 200                    | 100               | 1,300      | S     | S         |
| Materials.....          | 900    | 200                    | 100               | 600        | S     | S         |
| Men.....                | 700    | 200                    | 100               | 400        | S     | S         |
| Women.....              | 200    | S                      | S                 | 200        | S     | S         |
| Mechanical.....         | 15,900 | 2,100                  | 1,600             | 12,000     | 100   | 100       |
| Men.....                | 13,900 | 1,600                  | 1,500             | 10,700     | 100   | S         |
| Women.....              | 1,900  | 400                    | 100               | 1,400      | S     | 100       |
| Mining.....             | 400    | 100                    | S                 | 300        | S     | S         |
| Men.....                | 400    | 100                    | S                 | 200        | S     | S         |
| Women.....              | 100    | S                      | S                 | 100        | S     | S         |
| Nuclear.....            | 400    | 100                    | 100               | 300        | S     | S         |
| Men.....                | 300    | 100                    | 100               | 200        | S     | S         |
| Women.....              | 100    | S                      | S                 | 100        | S     | S         |
| Petroleum.....          | 500    | S                      | S                 | 400        | S     | S         |
| Men.....                | 400    | S                      | S                 | 300        | S     | S         |
| Women.....              | 100    | S                      | S                 | 100        | S     | S         |
| Other engineering.....  | 8,200  | 1,600                  | 800               | 5,700      | S     | S         |
| Men.....                | 6,500  | 1,300                  | 500               | 4,700      | S     | S         |
| Women.....              | 1,600  | 300                    | 400               | 1,000      | S     | S         |

KEY: S = Data suppressed for statistical reasons

NOTES: Because of rounding, components may not add to totals.

SOURCE: National Science Foundation/SRS, 1990 New Entrants Survey

Table B-22. 1989 science and engineering (S&E) bachelor's-degree recipients, by field of degree, employment status, and sex: 1990

| Field of degree        | Total population |         |         | Total employed |         |         | Employed in S&E occupation |         |        |
|------------------------|------------------|---------|---------|----------------|---------|---------|----------------------------|---------|--------|
|                        | Total            | Men     | Women   | Total          | Men     | Women   | Total                      | Men     | Women  |
| Total, all fields..... | 323,200          | 194,000 | 128,600 | 276,400        | 167,600 | 108,200 | 170,500                    | 118,000 | 52,300 |
| Total sciences.....    | 247,900          | 130,900 | 116,600 | 208,100        | 110,300 | 97,300  | 108,300                    | 66,300  | 41,900 |
| Physical sciences..... | 14,300           | 9,300   | 5,000   | 10,600         | 6,900   | 3,700   | 9,200                      | 6,200   | 3,000  |
| Chemistry.....         | 8,500            | 4,600   | 3,900   | 6,100          | 3,500   | 2,600   | 5,700                      | 3,100   | 2,500  |
| Physics/astronomy..... | 4,500            | 3,900   | 600     | 3,600          | 3,100   | 500     | 2,900                      | 2,500   | 300    |
| Other phys sciences... | 1,300            | 800     | 500     | 900            | 400     | 500     | 600                        | 500     | 100    |
| Math/statistics.....   | 18,700           | 9,700   | 8,900   | 16,300         | 8,600   | 7,600   | 12,000                     | 6,000   | 5,900  |
| Computer science.....  | 34,800           | 26,300  | 8,100   | 32,600         | 24,600  | 7,500   | 29,100                     | 22,100  | 6,900  |
| Environ science.....   | 3,400            | 2,200   | 1,200   | 3,100          | 2,000   | 1,000   | 2,800                      | 1,700   | 1,100  |
| Life sciences.....     | 52,800           | 25,400  | 27,400  | 40,500         | 20,000  | 20,500  | 24,800                     | 14,300  | 10,500 |
| Biology.....           | 37,800           | 16,600  | 21,200  | 26,800         | 12,000  | 14,800  | 16,200                     | 8,700   | 7,500  |
| Agr science.....       | 15,000           | 8,800   | 6,200   | 13,700         | 8,000   | 5,700   | 8,600                      | 5,600   | 3,000  |
| Psychology.....        | 44,200           | 14,100  | 30,100  | 38,700         | 11,600  | 27,100  | 11,700                     | 3,500   | 8,200  |
| Social sciences.....   | 79,700           | 43,800  | 35,900  | 66,400         | 36,500  | 29,900  | 18,800                     | 12,500  | 6,300  |
| Economics.....         | 24,200           | 18,600  | 5,600   | 21,600         | 16,400  | 5,200   | 6,600                      | 5,400   | 1,200  |
| Socio/anthro.....      | 18,700           | 6,500   | 12,200  | 15,600         | 5,300   | 10,300  | 4,000                      | 1,800   | 2,200  |
| Other soc sciences.... | 36,800           | 18,700  | 18,100  | 29,100         | 14,800  | 14,300  | 8,200                      | 5,300   | 2,900  |
| Total engineering..... | 75,300           | 63,100  | 12,100  | 68,300         | 57,300  | 10,900  | 62,200                     | 51,700  | 10,400 |
| Aero/astro.....        | 3,400            | 3,100   | 200     | 3,100          | 2,900   | 200     | 2,600                      | 2,300   | 200    |
| Chemical.....          | 4,000            | 2,800   | 1,200   | 3,200          | 2,100   | 1,200   | 3,400                      | 2,300   | 1,100  |
| Civil.....             | 7,600            | 6,500   | 1,100   | 6,900          | 6,000   | 1,000   | 6,400                      | 5,500   | 900    |
| Elect/electron.....    | 28,300           | 24,400  | 3,800   | 26,200         | 22,600  | 3,500   | 24,200                     | 20,800  | 3,300  |
| Industrial.....        | 5,800            | 4,100   | 1,700   | 5,200          | 3,600   | 1,600   | 4,600                      | 3,300   | 1,300  |
| Materials.....         | 900              | 700     | 200     | 700            | 500     | 200     | 700                        | 600     | 100    |
| Mechanical.....        | 15,900           | 13,900  | 1,900   | 14,700         | 13,100  | 1,600   | 13,200                     | 11,300  | 1,800  |
| Mining.....            | 400              | 400     | 100     | 300            | 300     | 100     | 400                        | 300     | 5      |
| Nuclear.....           | 400              | 300     | 100     | 400            | 300     | 100     | 300                        | 300     | 5      |
| Petroleum.....         | 500              | 400     | 100     | 400            | 400     | 100     | 400                        | 300     | 100    |
| Other engineering..... | 8,200            | 6,500   | 1,600   | 7,100          | 5,600   | 1,500   | 6,100                      | 4,700   | 1,400  |

See explanatory information and SOURCE at end of table.

Table B-22, 1989 science and engineering (S&E) bachelor's-degree recipients,  
by field of degree, employment status, and sex: 1990

| Field of degree        | Unemp'oyed |       |       | Outside labor force |        |        |
|------------------------|------------|-------|-------|---------------------|--------|--------|
|                        | Total      | Men   | Women | Total               | Men    | Women  |
| Total, all fields..... | 11,000     | 7,100 | 3,900 | 35,800              | 19,200 | 16,500 |
| Total sciences.....    | 8,600      | 5,000 | 3,600 | 31,200              | 15,500 | 15,600 |
| Physical sciences..... | 400        | 400   | S     | 3,300               | 2,000  | 1,300  |
| Chemistry.....         | 200        | 200   | S     | 2,200               | 1,000  | 1,200  |
| Physics/astronomy..... | 200        | 200   | S     | 800                 | 700    | 100    |
| Other phys sciences... | S          | S     | S     | 400                 | 300    | S      |
| Math/statistics.....   | 1,000      | 400   | 600   | 1,400               | 700    | 700    |
| Computer science.....  | 900        | 700   | 200   | 1,400               | 1,000  | 400    |
| Environ science.....   | 100        | S     | S     | 200                 | 200    | 100    |
| Life sciences.....     | 1,500      | 800   | 800   | 10,800              | 4,600  | 6,100  |
| Biology.....           | 1,300      | 700   | 700   | 9,700               | 4,000  | 5,700  |
| Agr science.....       | 200        | 100   | 100   | 1,100               | 600    | 500    |
| Psychology.....        | 800        | 800   | S     | 4,700               | 1,700  | 3,000  |
| Social sciences.....   | 4,000      | 2,000 | 2,000 | 9,400               | 5,300  | 4,000  |
| Economic.....          | 700        | 500   | 300   | 1,800               | 1,600  | 200    |
| Socio/anthro.....      | 1,200      | 400   | 800   | 1,900               | 800    | 1,000  |
| Other soc sciences...  | 2,000      | 1,100 | 900   | 5,700               | 2,900  | 2,800  |
| Total engineering..... | 2,400      | 2,100 | 300   | 4,600               | 3,700  | 900    |
| Aero/astro.....        | 100        | 100   | S     | 200                 | 200    | S      |
| Chemical.....          | 100        | 100   | S     | 700                 | 600    | S      |
| Civil.....             | 300        | 200   | S     | 400                 | 300    | 100    |
| Elect/electron.....    | 600        | 500   | S     | 1,600               | 1,300  | 300    |
| Industrial.....        | 400        | 400   | S     | 100                 | 100    | S      |
| Materials.....         | S          | S     | S     | 100                 | 100    | S      |
| Mechanical.....        | 600        | 400   | 100   | 600                 | 400    | 200    |
| Mining.....            | S          | S     | S     | 100                 | 100    | S      |
| Nuclear.....           | S          | S     | S     | S                   | S      | S      |
| Petroleum.....         | S          | S     | S     | S                   | S      | S      |
| Other engineering..... | 300        | 300   | S     | 800                 | 600    | 100    |

KEY: S = Data suppressed for statistical reasons

NOTES: Because of rounding, components may not add to totals.

SOURCE: National Science Foundation/SRS, 1990 New Entrants Survey



Table B-23. 1989 science and engineering (S&E) bachelor's-degree recipients, by field of degree, employment status, and racial/ethnic group: 1990

| Field of degree        | Total population |         |        |        |                 |             | Total employed |         |        |        |                 |             |
|------------------------|------------------|---------|--------|--------|-----------------|-------------|----------------|---------|--------|--------|-----------------|-------------|
|                        | Total            | White   | Black  | Asian  | Native American | Hispanic 1/ | Total          | White   | Black  | Asian  | Native American | Hispanic 1/ |
| Total, all fields..... | 323,200          | 258,200 | 17,000 | 17,500 | 2,700           | 12,500      | 276,400        | 222,700 | 14,200 | 13,800 | 2,500           | 10,100      |
| Total sciences.....    | 247,900          | 199,700 | 13,900 | 11,500 | 2,200           | 9,600       | 208,100        | 168,700 | 11,600 | 8,700  | 2,000           | 7,500       |
| Physical sciences..... | 14,300           | 11,500  | 500    | 1,200  | 100             | 600         | 10,600         | 8,500   | 400    | 700    | 100             | 500         |
| Chemistry.....         | 8,500            | 6,600   | 400    | 900    | S               | 300         | 6,100          | 4,800   | 300    | 500    | S               | 200         |
| Physics/astronomy..... | 4,500            | 3,700   | 100    | 300    | S               | 300         | 3,600          | 2,900   | 100    | 200    | S               | 300         |
| Other phys sciences... | 1,300            | 1,200   | S      | S      | S               | S           | 900            | 800     | S      | S      | S               | S           |
| Math/statistics.....   | 18,700           | 14,900  | 900    | 900    | 100             | 700         | 16,300         | 13,200  | 700    | 700    | 100             | 600         |
| Computer science.....  | 34,800           | 26,500  | 1,900  | 3,200  | 300             | 1,200       | 32,600         | 25,000  | 1,700  | 2,700  | 300             | 1,100       |
| Environ science.....   | 3,400            | 3,000   | S      | 100    | S               | S           | 3,100          | 2,700   | S      | 100    | S               | S           |
| Life sciences.....     | 52,800           | 41,600  | 2,300  | 2,800  | 400             | 1,900       | 40,500         | 32,800  | 1,800  | 1,600  | 400             | 1,100       |
| Biology.....           | 37,800           | 28,200  | 2,200  | 2,600  | 400             | 1,600       | 26,800         | 20,300  | 1,700  | 1,400  | 400             | 900         |
| Agr science.....       | 15,000           | 13,400  | 100    | 200    | S               | 300         | 13,700         | 12,500  | 100    | 200    | S               | 300         |
| Psychology.....        | 44,200           | 37,800  | 2,500  | 800    | 400             | 1,700       | 38,700         | 32,900  | 2,100  | 800    | 200             | 1,700       |
| Social sciences.....   | 79,700           | 64,300  | 5,900  | 2,500  | 800             | 3,400       | 66,400         | 53,500  | 4,900  | 2,100  | 800             | 2,500       |
| Economics.....         | 24,200           | 20,600  | 600    | 1,600  | 200             | 1,100       | 21,600         | 18,500  | 400    | 1,400  | 200             | 1,000       |
| Socio/anthro.....      | 18,700           | 13,400  | 2,800  | 400    | 200             | 600         | 15,600         | 11,500  | 2,200  | 400    | 200             | 400         |
| Other soc sciences.... | 36,800           | 30,300  | 2,400  | 400    | 400             | 1,700       | 29,100         | 23,500  | 2,300  | 200    | 400             | 1,100       |
| Total engineering..... | 75,300           | 58,500  | 3,100  | 6,000  | 500             | 2,900       | 68,300         | 54,000  | 2,700  | 5,100  | 500             | 2,600       |
| Aero/astro.....        | 3,400            | 2,900   | 100    | 100    | S               | 200         | 3,100          | 2,600   | 100    | 100    | S               | 200         |
| Chemical.....          | 4,000            | 3,200   | 200    | 200    | S               | 100         | 3,200          | 2,600   | 200    | 100    | S               | 100         |
| Civil.....             | 7,600            | 5,900   | 100    | 400    | S               | 400         | 6,900          | 5,500   | 100    | 400    | S               | 40          |
| Elect/electron.....    | 28,300           | 19,900  | 1,700  | 4,000  | 100             | 800         | 26,200         | 18,900  | 1,500  | 3,600  | 100             | 60          |
| Industrial.....        | 5,800            | 4,600   | 400    | 200    | S               | 400         | 5,200          | 4,400   | 300    | 100    | S               | 30          |
| Materials.....         | 900              | 800     | S      | S      | S               | S           | 700            | 600     | S      | S      | S               | S           |
| Mechanical.....        | 15,900           | 13,100  | 400    | 700    | 300             | 900         | 14,700         | 12,100  | 400    | 600    | 300             | 90          |
| Mining.....            | 400              | 300     | S      | S      | S               | S           | 300            | 300     | S      | S      | S               | S           |
| Nuclear.....           | 400              | 400     | S      | S      | S               | S           | 400            | 400     | S      | S      | S               | S           |
| Petroleum.....         | 500              | 400     | S      | S      | S               | S           | 400            | 400     | S      | S      | S               | S           |
| Other engineering..... | 8,200            | 6,900   | 200    | 200    | S               | 100         | 7,100          | 6,300   | 200    | 200    | S               | S           |

| Field of degree        | Employed in S&E occupation |         |       |        |                 |             | Unemployed |       |       |       |                 |             |
|------------------------|----------------------------|---------|-------|--------|-----------------|-------------|------------|-------|-------|-------|-----------------|-------------|
|                        | Total                      | White   | Black | Asian  | Native American | Hispanic 1/ | Total      | White | Black | Asian | Native American | Hispanic 1/ |
| Total, all fields..... | 170,500                    | 134,400 | 7,800 | 10,800 | 1,100           | 6,500       | 11,000     | 8,100 | 700   | 900   | S               | 600         |
| Total sciences.....    | 108,300                    | 86,000  | 5,500 | 6,100  | 700             | 4,100       | 8,600      | 6,800 | 500   | 500   | S               | 500         |
| Physical sciences..... | 9,200                      | 7,200   | 200   | 900    | S               | 400         | 400        | 300   | S     | S     | S               | S           |
| Chemistry.....         | 5,700                      | 4,300   | 200   | 700    | S               | 200         | 200        | 100   | S     | S     | S               | S           |
| Physics/astronomy..... | 2,900                      | 2,300   | 100   | 200    | S               | 200         | 200        | 200   | S     | S     | S               | S           |
| Other phys sciences... | 600                        | 600     | S     | S      | S               | S           | S          | S     | S     | S     | S               | S           |
| Math/statistics.....   | 12,000                     | 9,600   | 600   | 500    | 100             | 300         | 1,000      | 800   | S     | S     | S               | S           |
| Computer science.....  | 29,100                     | 22,000  | 1,500 | 2,500  | 300             | 1,100       | 900        | 500   | 100   | 200   | S               | S           |
| Environ science.....   | 2,800                      | 2,400   | S     | 100    | S               | S           | 100        | 100   | S     | S     | S               | S           |
| Life sciences.....     | 24,800                     | 20,300  | 600   | 1,500  | 200             | 700         | 1,500      | 1,100 | S     | S     | S               | 200         |
| Biology.....           | 16,200                     | 12,600  | 500   | 1,300  | 200             | 500         | 1,300      | 900   | S     | S     | S               | 200         |
| Agr science.....       | 8,600                      | 7,600   | 100   | 200    | S               | 200         | 200        | 200   | S     | S     | S               | S           |
| Psychology.....        | 11,700                     | 10,000  | 800   | 200    | S               | 400         | 800        | 800   | S     | S     | S               | S           |
| Social sciences.....   | 18,800                     | 14,300  | 1,700 | 300    | S               | 1,200       | 4,000      | 3,200 | 400   | 200   | S               | 200         |
| Economics.....         | 6,600                      | 5,700   | 200   | 300    | S               | 300         | 700        | 700   | 100   | S     | S               | S           |
| Socio/anthro.....      | 4,000                      | 2,300   | 800   | S      | S               | 200         | 1,200      | 800   | 200   | S     | S               | 200         |
| Other soc sciences.... | 8,200                      | 6,200   | 700   | S      | S               | 600         | 2,000      | 1,700 | 100   | 200   | S               | S           |
| Total engineering..... | 62,200                     | 48,400  | 2,300 | 4,700  | 400             | 2,400       | 2,400      | 1,400 | 200   | 400   | S               | 100         |
| Aero/astro.....        | 2,600                      | 2,100   | 100   | 100    | S               | 200         | 100        | 100   | S     | S     | S               | S           |
| Chemical.....          | 3,400                      | 2,700   | 200   | 200    | S               | 100         | 100        | 100   | S     | S     | S               | S           |
| Civil.....             | 6,400                      | 4,900   | 100   | 400    | S               | 400         | 300        | 200   | S     | S     | S               | S           |
| Elect/electron.....    | 24,200                     | 17,400  | 1,300 | 3,200  | 100             | 600         | 600        | 200   | 100   | 200   | S               | 100         |
| Industrial.....        | 4,600                      | 3,600   | 300   | 200    | S               | 200         | 400        | 200   | 100   | 100   | S               | S           |
| Materials.....         | 700                        | 600     | S     | S      | S               | S           | 700        | 600   | S     | S     | S               | S           |
| Mechanical.....        | 13,200                     | 11,000  | 400   | 600    | 200             | 700         | 600        | 500   | S     | 100   | S               | S           |
| Mining.....            | 400                        | 300     | S     | S      | S               | S           | 300        | 300   | S     | S     | S               | S           |
| Nuclear.....           | 300                        | 300     | S     | S      | S               | S           | 300        | 300   | S     | S     | S               | S           |
| Petroleum.....         | 400                        | 400     | S     | S      | S               | S           | 400        | 400   | S     | S     | S               | S           |
| Other engineering..... | 6,100                      | 5,200   | S     | 100    | S               | 100         | 300        | 100   | S     | S     | S               | S           |

See explanatory information and SOURCE at end of table.

Table B-23. 1989 science and engineering (S&E) bachelor's-degree recipients, by field of degree, employment status, and racial/ethnic group: 1990

| Field of degree        | Outside labor force |        |       |       |                 |             |
|------------------------|---------------------|--------|-------|-------|-----------------|-------------|
|                        | Total               | White  | Black | Asian | Native American | Hispanic 1/ |
| Total, all fields..... | 35,800              | 27,300 | 2,100 | 2,900 | 200             | 1,800       |
| Total sciences.....    | 31,200              | 24,200 | 1,800 | 2,400 | 200             | 1,600       |
| Physical sciences..... | 3,300               | 2,700  | 100   | 500   | S               | 100         |
| Chemistry.....         | 2,200               | 1,700  | 100   | 400   | S               | S           |
| Physics/astronomy..... | 800                 | 600    | S     | 100   | S               | 100         |
| Other phys sciences... | 400                 | 400    | S     | S     | S               | S           |
| Math/statistics.....   | 1,400               | 900    | 200   | 200   | S               | 100         |
| Computer science.....  | 1,400               | 1,000  | 100   | 300   | S               | S           |
| Environ science.....   | 300                 | 200    | S     | S     | S               | S           |
| Life sciences.....     | 10,800              | 7,700  | 600   | 1,200 | S               | 600         |
| Biology.....           | 9,700               | 7,000  | 600   | 1,200 | S               | 500         |
| Agr science.....       | 1,100               | 700    | S     | S     | S               | 100         |
| Psychology.....        | 4,700               | 4,100  | 400   | S     | 200             | S           |
| Social sciences.....   | 9,400               | 7,600  | 600   | 200   | S               | 800         |
| Economics.....         | 1,800               | 1,500  | 200   | 200   | S               | 200         |
| Socio/anthro.....      | 1,900               | 1,000  | 400   | S     | S               | S           |
| Other soc sciences.... | 5,700               | 5,100  | S     | S     | S               | 600         |
| Total engineering..... | 4,600               | 3,100  | 300   | 400   | S               | 200         |
| Aero/astro.....        | 200                 | 200    | S     | S     | S               | S           |
| Chemical.....          | 700                 | 500    | S     | 100   | S               | S           |
| Civil.....             | 400                 | 300    | S     | S     | S               | S           |
| Elect/electron.....    | 1,600               | 800    | 100   | 200   | S               | 100         |
| Industrial.....        | 100                 | 100    | S     | S     | S               | S           |
| Materials.....         | 100                 | 100    | S     | S     | S               | S           |
| Mechanical.....        | 600                 | 500    | 100   | S     | S               | S           |
| Mining.....            | 100                 | S      | S     | S     | S               | S           |
| Nuclear.....           | S                   | S      | S     | S     | S               | S           |
| Petroleum.....         | S                   | S      | S     | S     | S               | S           |
| Other engineering..... | 800                 | 600    | S     | 100   | S               | S           |

1/ Includes members of all racial groups

KEY: S = Data suppressed for statistical reasons

NOTES: Components will not add to totals because (a) racial and ethnic categories are not mutually exclusive, (b) total includes "other" and "no report," and (c) both components and totals have been rounded.

SOURCE: National Science Foundation/SRS, 1990 New Entrants Survey

Table B-24. 1989 science and engineering (S&E) bachelor's-degree recipients, by field of degree, employment status, and sex: 1990

| Field of degree          | Total population |         |         | Total employed |         |        | Employed in S&E occupation |        |        |
|--------------------------|------------------|---------|---------|----------------|---------|--------|----------------------------|--------|--------|
|                          | Total            | Men     | Women   | Total          | Men     | Women  | Total                      | Men    | Women  |
| Total, all fields.....   | 261,300          | 159,000 | 101,800 | 244,700        | 149,400 | 94,700 | 138,800                    | 98,400 | 40,300 |
| Total sciences.....      | 196,100          | 103,900 | 91,800  | 182,000        | 96,500  | 85,100 | 85,000                     | 53,200 | 31,800 |
| Physical sciences.....   | 8,600            | 5,500   | 3,000   | 7,900          | 5,000   | 2,800  | 5,300                      | 3,600  | 1,700  |
| Chemistry.....           | 4,800            | 2,700   | 2,200   | 4,500          | 2,500   | 2,000  | 3,300                      | 1,900  | 1,400  |
| Physics/astronomy.....   | 2,900            | 2,500   | 400     | 2,500          | 2,200   | 400    | 1,700                      | 1,500  | 200    |
| Other phys sciences..... | 900              | 400     | 500     | 900            | 400     | 400    | 200                        | 200    | 100    |
| Math/statistics.....     | 14,900           | 7,400   | 7,500   | 13,400         | 6,900   | 6,500  | 8,500                      | 4,200  | 4,300  |
| Computer science.....    | 32,400           | 24,200  | 7,700   | 31,000         | 23,300  | 7,300  | 27,000                     | 20,500 | 6,500  |
| Environ science.....     | 2,400            | 1,700   | 700     | 2,200          | 1,600   | 600    | 1,800                      | 1,200  | 600    |
| Life sciences.....       | 37,900           | 18,600  | 19,300  | 35,300         | 17,700  | 17,500 | 18,600                     | 11,100 | 7,500  |
| Biology.....             | 25,200           | 10,700  | 14,500  | 23,100         | 10,100  | 13,000 | 11,800                     | 6,300  | 5,500  |
| Agr science.....         | 12,700           | 7,900   | 4,800   | 12,200         | 7,600   | 4,600  | 6,800                      | 4,800  | 2,000  |
| Psychology.....          | 34,600           | 10,700  | 23,900  | 32,300         | 9,300   | 22,900 | 8,600                      | 2,500  | 6,100  |
| Social sciences.....     | 65,400           | 35,700  | 29,600  | 60,000         | 37,600  | 27,400 | 15,200                     | 10,100 | 5,100  |
| Economics.....           | 21,500           | 16,200  | 5,300   | 20,100         | 15,300  | 4,900  | 5,900                      | 4,800  | 1,200  |
| Socio/anthro.....        | 15,400           | 5,500   | 9,900   | 14,000         | 4,700   | 9,300  | 2,700                      | 1,400  | 1,300  |
| Other soc sciences.....  | 28,400           | 14,000  | 14,400  | 25,900         | 12,600  | 13,300 | 6,500                      | 3,900  | 2,600  |
| Total engineering.....   | 65,200           | 55,100  | 10,000  | 62,700         | 52,900  | 9,600  | 53,800                     | 45,200 | 8,500  |
| Aero/astro.....          | 2,900            | 2,700   | 200     | 2,900          | 2,700   | 200    | 2,300                      | 2,100  | 200    |
| Chemical.....            | 3,400            | 2,300   | 1,100   | 3,000          | 1,900   | 1,000  | 2,700                      | 1,800  | 900    |
| Civil.....               | 6,700            | 5,800   | 900     | 6,400          | 5,600   | 800    | 5,700                      | 4,900  | 800    |
| Elect/electron.....      | 24,700           | 21,600  | 3,100   | 24,200         | 21,100  | 3,100  | 21,500                     | 18,600 | 2,800  |
| Industrial.....          | 5,400            | 3,900   | 1,500   | 4,900          | 3,500   | 1,500  | 3,900                      | 2,800  | 1,100  |
| Materials.....           | 700              | 500     | 200     | 600            | 400     | 200    | 500                        | 400    | 100    |
| Mechanical.....          | 13,800           | 12,300  | 1,500   | 13,100         | 11,800  | 1,300  | 11,200                     | 9,900  | 1,300  |
| Mining.....              | 300              | 200     | 100     | 300            | 200     | 100    | 200                        | 200    | 5      |
| Nuclear.....             | 400              | 300     | 100     | 400            | 300     | 100    | 300                        | 200    | 5      |
| Petroleum.....           | 400              | 400     | 100     | 400            | 300     | 100    | 400                        | 300    | 5      |
| Other engineering.....   | 6,600            | 5,200   | 1,300   | 6,500          | 5,200   | 1,300  | 5,100                      | 3,900  | 1,200  |

See explanatory information and SOURCE at end of table.

Table B-24. 1989 science and engineering (S&E) bachelor's-degree recipients,  
by field of degree, employment status, and sex: 1990

| Field of degree        | Unemployed |       |       | Outside labor force |       |       |
|------------------------|------------|-------|-------|---------------------|-------|-------|
|                        | Total      | Men   | Women | Total               | Men   | Women |
| Total, all fields..... | 9,600      | 6,200 | 3,500 | 7,000               | 3,400 | 3,600 |
| Total sciences.....    | 7,800      | 4,500 | 3,200 | 6,300               | 2,900 | 3,400 |
| Physical sciences..... | 400        | 300   | S     | 400                 | 200   | 200   |
| Chemistry.....         | 200        | 100   | S     | 200                 | 100   | 100   |
| Physics/astronomy..... | 200        | 200   | S     | 200                 | 100   | S     |
| Other phys sciences... | S          | S     | S     | S                   | S     | S     |
| Math/statistics.....   | 1,000      | 400   | 600   | 600                 | 100   | 500   |
| Computer science.....  | 900        | 700   | 200   | 500                 | 300   | 300   |
| Environ science.....   | 100        | S     | S     | 100                 | 100   | S     |
| Life sciences.....     | 1,300      | 600   | 800   | 1,200               | 300   | 1,000 |
| Biology.....           | 1,100      | 500   | 700   | 1,000               | 100   | 900   |
| Agr science.....       | 200        | 100   | 100   | 200                 | 200   | 100   |
| Psychology.....        | 800        | 800   | S     | 1,500               | 600   | 900   |
| Social sciences.....   | 3,400      | 1,800 | 1,600 | 2,000               | 1,400 | 600   |
| Economics.....         | 700        | 500   | 300   | 700                 | 560   | 200   |
| Socio/anthro.....      | 1,000      | 400   | 600   | 400                 | 400   | S     |
| Other soc sciences...  | 1,600      | 900   | 700   | 900                 | 500   | 400   |
| Total engineering..... | 1,900      | 1,600 | 200   | 700                 | 500   | 100   |
| Aero/astro.....        | 100        | 100   | S     | S                   | S     | S     |
| Chemical.....          | 100        | 100   | S     | 300                 | 300   | S     |
| Civil.....             | 200        | 200   | S     | 100                 | S     | S     |
| Elect/electron.....    | 400        | 400   | S     | 100                 | 100   | S     |
| Industrial.....        | 400        | 400   | S     | S                   | S     | S     |
| Materials.....         | S          | S     | S     | S                   | S     | S     |
| Mechanical.....        | 500        | 400   | 100   | 200                 | 100   | 100   |
| Mining.....            | S          | S     | S     | S                   | S     | S     |
| Nuclear.....           | S          | S     | S     | S                   | S     | S     |
| Petroleum.....         | S          | S     | S     | S                   | S     | S     |
| Other engineering..... | 100        | 100   | S     | S                   | S     | S     |

KEY: S = Data suppressed for statistical reasons

NOTES: Because of rounding, components may not add to totals.  
Data exclude those on full-time graduate students.

SOURCE: National Science Foundation/SRS, 1990 New Entrants Survey

Table B-25. 1989 science and engineering (S&E) bachelor's-degree recipients, by field of degree, employment status, and racial/ethnic group: 1990

| Field of degree        | Total population |         |        |        |                 |          |
|------------------------|------------------|---------|--------|--------|-----------------|----------|
|                        | Total            | White   | Black  | Asian  | Native American | Hispanic |
| Total, all fields..... | 261,300          | 210,600 | 14,100 | 12,500 | 2,200           | 10,300   |
| Total sciences.....    | 196,100          | 159,300 | 11,400 | 7,700  | 1,700           | 7,600    |
| Physical sciences..... | 8,600            | 6,800   | 400    | 600    | 5               | 400      |
| Chemistry.....         | 4,800            | 3,700   | 300    | 500    | 5               | 200      |
| Physics/astronomy..... | 2,900            | 2,300   | 100    | 100    | 5               | 200      |
| Other phys sciences... | 900              | 800     | 5      | 5      | 5               | 5        |
| Math/statistics.....   | 14,900           | 12,000  | 600    | 800    | 100             | 700      |
| Computer science.....  | 32,400           | 25,000  | 1,700  | 2,700  | 300             | 1,100    |
| Environ science.....   | 5,400            | 2,200   | 5      | 100    | 5               | 5        |
| Life sciences.....     | 37,900           | 30,100  | 1,700  | 1,200  | 400             | 900      |
| Biology.....           | 25,200           | 18,600  | 1,700  | 1,000  | 400             | 700      |
| Agr science.....       | 12,700           | 11,600  | 100    | 200    | 5               | 200      |
| Psychology.....        | 34,600           | 29,400  | 2,100  | 600    | 200             | 1,700    |
| Social sciences.....   | 65,400           | 53,700  | 4,900  | 1,700  | 600             | 2,700    |
| Economics.....         | 21,500           | 19,000  | 300    | 1,100  | 5               | 1,000    |
| Socio/anthro.....      | 15,400           | 11,300  | 2,400  | 400    | 200             | 600      |
| Other soc sciences.... | 28,400           | 23,400  | 2,200  | 200    | 400             | 1,100    |
| Total engineering..... | 65,200           | 51,400  | 2,700  | 4,800  | 500             | 2,800    |
| Aero/astro.....        | 2,900            | 2,500   | 100    | 100    | 5               | 200      |
| Chemical.....          | 3,400            | 2,700   | 200    | 200    | 5               | 100      |
| Civil.....             | 6,700            | 5,300   | 5      | 400    | 5               | 400      |
| Elect/electron.....    | 24,700           | 17,900  | 1,500  | 3,300  | 100             | 700      |
| Industrial.....        | 5,400            | 4,400   | 400    | 200    | 5               | 300      |
| Materials.....         | 700              | 600     | 5      | 5      | 5               | 5        |
| Mechanical.....        | 13,800           | 11,200  | 400    | 600    | 300             | 900      |
| Mining.....            | 300              | 200     | 5      | 5      | 5               | 5        |
| Nuclear.....           | 400              | 400     | 5      | 5      | 5               | 5        |
| Petroleum.....         | 400              | 400     | 5      | 5      | 5               | 5        |
| Other engineering..... | 6,600            | 5,900   | 100    | 100    | 5               | 100      |

| Field of degree        | Total employed |         |        |        |                 |          |
|------------------------|----------------|---------|--------|--------|-----------------|----------|
|                        | Total          | White   | Black  | Asian  | Native American | Hispanic |
| Total, all fields..... | 244,700        | 198,200 | 12,700 | 11,400 | 2,200           | 9,300    |
| Total sciences.....    | 182,000        | 148,500 | 10,200 | 7,000  | 1,700           | 6,700    |
| Physical sciences..... | 7,900          | 6,200   | 400    | 500    | 5               | 400      |
| Chemistry.....         | 4,500          | 3,400   | 300    | 400    | 5               | 200      |
| Physics/astronomy..... | 2,500          | 2,000   | 100    | 100    | 5               | 200      |
| Other phys sciences... | 900            | 800     | 5      | 5      | 5               | 5        |
| Math/statistics.....   | 13,400         | 10,900  | 500    | 700    | 100             | 600      |
| Computer science.....  | 31,000         | 24,100  | 1,600  | 2,400  | 300             | 1,100    |
| Environ science.....   | 2,200          | 2,000   | 5      | 100    | 5               | 5        |
| Life sciences.....     | 35,300         | 28,500  | 1,700  | 1,000  | 400             | 700      |
| Biology.....           | 23,100         | 17,400  | 1,700  | 800    | 400             | 500      |
| Agr science.....       | 12,200         | 11,200  | 100    | 200    | 5               | 200      |
| Psychology.....        | 32,300         | 27,400  | 1,700  | 600    | 200             | 1,700    |
| Social sciences.....   | 60,000         | 49,300  | 4,300  | 1,700  | 600             | 2,200    |
| Economics.....         | 20,100         | 17,600  | 300    | 1,100  | 5               | 1,000    |
| Socio/anthro.....      | 14,000         | 10,500  | 2,000  | 400    | 200             | 400      |
| Other soc sciences.... | 25,900         | 21,200  | 2,100  | 200    | 400             | 900      |
| Total engineering..... | 62,700         | 49,700  | 2,500  | 4,400  | 500             | 2,600    |
| Aero/astro.....        | 2,900          | 2,500   | 100    | 100    | 5               | 200      |
| Chemical.....          | 3,000          | 2,400   | 200    | 100    | 5               | 100      |
| Civil.....             | 6,400          | 5,100   | 5      | 400    | 5               | 400      |
| Elect/electron.....    | 24,200         | 17,700  | 1,400  | 3,100  | 100             | 300      |
| Industrial.....        | 4,900          | 4,100   | 300    | 100    | 5               | 300      |
| Materials.....         | 600            | 500     | 5      | 5      | 5               | 5        |
| Mechanical.....        | 13,100         | 10,600  | 400    | 600    | 300             | 900      |
| Mining.....            | 300            | 200     | 5      | 5      | 5               | 5        |
| Nuclear.....           | 400            | 400     | 5      | 5      | 5               | 5        |
| Petroleum.....         | 400            | 400     | 5      | 5      | 5               | 5        |
| Other engineering..... | 6,500          | 5,900   | 100    | 100    | 5               | 5        |

See explanatory information and SOURCE at end of table.

Table B-25. 1989 science and engineering (S&E) bachelor's-degree recipients, by field of degree, employment status, and racial/ethnic group: 1990

| Field of degree         | Employed in S&E occupation |         |       |       |                 |             |
|-------------------------|----------------------------|---------|-------|-------|-----------------|-------------|
|                         | Total                      | White   | Black | Asian | Native American | Hispanic 1/ |
| Total, all fields.....  | 138,800                    | 111,000 | 5,700 | 8,500 | 1,000           | 5,400       |
| Total sciences.....     | 85,000                     | 68,400  | 3,700 | 4,700 | 700             | 3,200       |
| Physical sciences.....  | 5,300                      | 4,000   | 200   | 500   | 5               | 300         |
| Chemistry.....          | 3,300                      | 2,400   | 200   | 400   | 5               | 100         |
| Physics/astronomy.....  | 1,700                      | 1,300   | 5     | 100   | 5               | 100         |
| Other phys sciences.... | 200                        | 200     | 5     | 5     | 5               | 5           |
| Math/statistics.....    | 8,500                      | 7,000   | 300   | 500   | 100             | 200         |
| Computer science.....   | 27,000                     | 20,800  | 1,200 | 2,300 | 300             | 900         |
| Environ science.....    | 1,800                      | 1,600   | 5     | 100   | 5               | 5           |
| Life sciences.....      | 18,600                     | 15,400  | 600   | 700   | 200             | 400         |
| Biology.....            | 11,800                     | 9,400   | 500   | 500   | 200             | 300         |
| Agr science.....        | 6,800                      | 6,000   | 100   | 200   | 5               | 200         |
| Psychology.....         | 8,600                      | 7,600   | 200   | 200   | 5               | 400         |
| Social sciences.....    | 15,200                     | 12,100  | 1,200 | 300   | 5               | 1,000       |
| Economics.....          | 5,900                      | 5,300   | 5     | 300   | 5               | 300         |
| Socio/anthro.....       | 2,700                      | 1,700   | 600   | 5     | 5               | 200         |
| Other soc sciences....  | 6,500                      | 5,100   | 600   | 5     | 5               | 400         |
| Total engineering.....  | 53,800                     | 42,600  | 2,000 | 3,700 | 400             | 2,200       |
| Aero/astro.....         | 2,300                      | 1,900   | 100   | 100   | 5               | 200         |
| Chemical.....           | 2,700                      | 2,200   | 100   | 100   | 5               | 100         |
| Civil.....              | 5,700                      | 4,300   | 5     | 400   | 5               | 400         |
| Elect/electron.....     | 21,500                     | 16,000  | 1,100 | 2,500 | 100             | 600         |
| Industrial.....         | 3,900                      | 3,200   | 300   | 100   | 5               | 200         |
| Materials.....          | 500                        | 400     | 5     | 5     | 5               | 5           |
| Mechanical.....         | 11,200                     | 9,200   | 300   | 500   | 200             | 700         |
| Mining.....             | 200                        | 200     | 5     | 5     | 5               | 5           |
| Nuclear.....            | 300                        | 300     | 5     | 5     | 5               | 5           |
| Petroleum.....          | 400                        | 300     | 5     | 5     | 5               | 5           |
| Other engineering....   | 5,100                      | 4,600   | 5     | 100   | 5               | 5           |

| Field of degree         | Unemployed |       |       |       |                 |             |
|-------------------------|------------|-------|-------|-------|-----------------|-------------|
|                         | Total      | White | Black | Asian | Native American | Hispanic 1/ |
| Total, all fields.....  | 9,600      | 7,200 | 700   | 700   | 5               | 600         |
| Total sciences.....     | 7,800      | 6,100 | 500   | 300   | 5               | 500         |
| Physical sciences.....  | 400        | 300   | 5     | 5     | 5               | 5           |
| Chemistry.....          | 200        | 100   | 5     | 5     | 5               | 5           |
| Physics/astronomy.....  | 200        | 200   | 5     | 5     | 5               | 5           |
| Other phys sciences.... | 5          | 5     | 5     | 5     | 5               | 5           |
| Math/statistics.....    | 1,000      | 800   | 5     | 5     | 5               | 5           |
| Computer science.....   | 900        | 500   | 100   | 200   | 5               | 5           |
| Environ science.....    | 100        | 100   | 5     | 5     | 5               | 5           |
| Life sciences.....      | 1,300      | 900   | 5     | 5     | 5               | 200         |
| Biology.....            | 1,100      | 700   | 5     | 5     | 5               | 200         |
| Agr science.....        | 200        | 200   | 5     | 5     | 5               | 5           |
| Psychology.....         | 800        | 800   | 5     | 5     | 5               | 5           |
| Social sciences.....    | 3,400      | 2,800 | 400   | 5     | 5               | 200         |
| Economics.....          | 700        | 700   | 100   | 5     | 5               | 5           |
| Socio/anthro.....       | 1,000      | 600   | 200   | 5     | 5               | 200         |
| Other soc sciences....  | 1,600      | 1,500 | 100   | 5     | 5               | 5           |
| Total engineering.....  | 1,900      | 1,100 | 100   | 400   | 5               | 100         |
| Aero/astro.....         | 100        | 100   | 5     | 5     | 5               | 5           |
| Chemical.....           | 100        | 100   | 5     | 5     | 5               | 5           |
| Civil.....              | 200        | 200   | 5     | 5     | 5               | 5           |
| Elect/electron.....     | 400        | 100   | 100   | 200   | 5               | 100         |
| Industrial.....         | 400        | 200   | 100   | 100   | 5               | 5           |
| Materials.....          | 5          | 5     | 5     | 5     | 5               | 5           |
| Mechanical.....         | 500        | 500   | 5     | 100   | 5               | 5           |
| Mining.....             | 5          | 5     | 5     | 5     | 5               | 5           |
| Nuclear.....            | 5          | 5     | 5     | 5     | 5               | 5           |
| Petroleum.....          | 5          | 5     | 5     | 5     | 5               | 5           |
| Other engineering....   | 100        | 5     | 5     | 5     | 5               | 5           |

See explanatory information and SOURCE at end of table.

Table B-25. 1989 science and engineering (S&E) bachelor's-degree recipients, by field of degree, employment status, and racial/ethnic group: 1990

| Field of degree        | Outside labor force |       |       |       |                 |             |
|------------------------|---------------------|-------|-------|-------|-----------------|-------------|
|                        | Total               | White | Black | Asian | Native American | Hispanic 1/ |
| Total, all fields..... | 7,000               | 5,200 | 700   | 400   | S               | 400         |
| Total sciences.....    | 6,300               | 4,600 | 700   | 400   | S               | 400         |
| Physical sciences..... | 400                 | 300   | S     | S     | S               | 100         |
| Chemistry.....         | 200                 | 200   | S     | S     | S               | S           |
| Physics/astronomy..... | 200                 | 100   | S     | S     | S               | S           |
| Other phys sciences... | S                   | S     | S     | S     | S               | S           |
| Math/statistics.....   | 600                 | 300   | 100   | 100   | S               | 100         |
| Computer science.....  | 500                 | 400   | S     | 100   | S               | S           |
| Environ science.....   | 100                 | 100   | S     | S     | S               | S           |
| Life sciences.....     | 1,200               | 700   | S     | 200   | S               | S           |
| Biology.....           | 1,000               | 500   | S     | 200   | S               | S           |
| Agr science.....       | 200                 | 200   | S     | S     | S               | S           |
| Psychology.....        | 1,500               | 1,100 | 400   | S     | S               | S           |
| Social sciences.....   | 2,000               | 1,600 | 200   | S     | S               | 200         |
| Economics.....         | 700                 | 700   | S     | S     | S               | S           |
| Socio/anthro.....      | 400                 | 200   | 200   | S     | S               | S           |
| Other soc sciences.... | 900                 | 700   | S     | S     | S               | 200         |
| Total engineering..... | 700                 | 600   | S     | S     | S               | S           |
| Aero/astro.....        | S                   | S     | S     | S     | S               | S           |
| Chemical.....          | 300                 | 300   | S     | S     | S               | S           |
| Civil.....             | 100                 | 100   | S     | S     | S               | S           |
| Elect/electron.....    | 100                 | 100   | S     | S     | S               | S           |
| Industrial.....        | S                   | S     | S     | S     | S               | S           |
| Materials.....         | S                   | S     | S     | S     | S               | S           |
| Mechanical.....        | 200                 | 100   | S     | S     | S               | S           |
| Mining.....            | S                   | S     | S     | S     | S               | S           |
| Nuclear.....           | S                   | S     | S     | S     | S               | S           |
| Petroleum.....         | S                   | S     | S     | S     | S               | S           |
| Other engineering..... | S                   | S     | S     | S     | S               | S           |

1/ Includes members of all racial groups

KEY: S = Data suppressed for statistical reasons

NOTES: Components will not add to totals because (a) racial and ethnic categories are not mutually exclusive, (b) total includes "other" and "no report," and (c) both components and totals have been rounded.  
Data exclude those on full-time graduate students.

SOURCE: National Science Foundation/SRS, 1990 New Entrants Survey

Table B-26. 1989 science and engineering bachelor's-degree recipients, by field of degree, sex, and type of employer: 1990

| Field of degree and sex  | Total employed | Type of employer      |          |               |                          |                   |        |                 |                    |                         |        |           |
|--------------------------|----------------|-----------------------|----------|---------------|--------------------------|-------------------|--------|-----------------|--------------------|-------------------------|--------|-----------|
|                          |                | Business and industry |          |               | Educational institutions |                   |        | Non-profit orgs | Federal Government | State/local governments | Other  | No report |
|                          |                | Total                 | Industry | Self-employed | Total                    | 4-yr college univ | Other  |                 |                    |                         |        |           |
| Total, all fields.....   | 244,100        | 155,000               | 150,000  | 5,000         | 24,500                   | 8,100             | 16,400 | 13,000          | 10,400             | 14,300                  | 26,000 | 1,000     |
| Men.....                 | 149,400        | 105,900               | 102,000  | 3,800         | 11,200                   | 4,800             | 6,400  | 2,600           | 7,400              | 8,000                   | 13,900 | 500       |
| Women.....               | 94,700         | 49,100                | 48,000   | 1,100         | 13,300                   | 3,200             | 10,000 | 10,400          | 3,100              | 6,300                   | 12,200 | 500       |
| Total sciences.....      | 181,600        | 105,900               | 101,800  | 4,100         | 22,700                   | 6,900             | 15,800 | 12,600          | 6,600              | 11,600                  | 21,400 | 800       |
| Men.....                 | 96,500         | 64,700                | 61,700   | 3,000         | 9,900                    | 4,000             | 5,900  | 2,300           | 4,100              | 5,700                   | 9,600  | 300       |
| Women.....               | 85,100         | 41,200                | 40,100   | 1,100         | 12,900                   | 2,900             | 10,000 | 10,300          | 2,500              | 6,000                   | 11,800 | 500       |
| Physical sciences.....   | 7,900          | 5,100                 | 5,000    | 100           | 1,300                    | 300               | 900    | 200             | 300                | 200                     | 800    | S         |
| Men.....                 | 5,000          | 3,200                 | 3,100    | 100           | 600                      | 300               | 400    | 200             | 100                | 200                     | 700    | S         |
| Women.....               | 2,800          | 1,900                 | 1,900    | S             | 700                      | 100               | 600    | S               | 100                | 100                     | 100    | S         |
| Chemistry.....           | 4,500          | 3,300                 | 3,200    | S             | 400                      | 200               | 300    | 100             | 100                | 200                     | 400    | S         |
| Men.....                 | 2,500          | 1,600                 | 1,600    | S             | 200                      | 100               | 100    | 100             | S                  | 100                     | 400    | S         |
| Women.....               | 2,000          | 1,600                 | 1,600    | S             | 300                      | 100               | 200    | S               | S                  | S                       | 100    | S         |
| Physics/astronomy.....   | 2,500          | 1,600                 | 1,600    | S             | 400                      | 200               | 200    | 100             | 100                | S                       | 300    | S         |
| Men.....                 | 2,200          | 1,300                 | 1,300    | S             | 300                      | 200               | 200    | 100             | 100                | S                       | 200    | S         |
| Women.....               | 400            | 300                   | 300      | S             | S                        | S                 | S      | S               | S                  | S                       | S      | S         |
| Other phys sciences..... | 900            | 200                   | 200      | S             | 500                      | S                 | 500    | S               | S                  | S                       | 100    | S         |
| Men.....                 | 400            | 200                   | 200      | S             | 100                      | S                 | 100    | S               | S                  | S                       | 100    | S         |
| Women.....               | 400            | S                     | S        | S             | 400                      | S                 | 400    | S               | S                  | S                       | S      | S         |
| Math/statistics.....     | 13,400         | 7,500                 | 7,400    | 100           | 3,800                    | 600               | 3,200  | 300             | 100                | 200                     | 1,400  | 100       |
| Men.....                 | 6,900          | 4,100                 | 4,000    | 100           | 1,600                    | 400               | 1,200  | 100             | 100                | 200                     | 900    | S         |
| Women.....               | 6,500          | 3,400                 | 3,400    | S             | 2,200                    | 200               | 2,000  | 200             | 100                | S                       | 500    | 100       |
| Computer science.....    | 30,600         | 25,300                | 24,700   | 600           | 2,000                    | 1,400             | 500    | 200             | 1,000              | 600                     | 1,200  | 300       |
| Men.....                 | 23,300         | 19,400                | 18,800   | 600           | 1,500                    | 1,100             | 400    | 100             | 700                | 400                     | 900    | 300       |
| Women.....               | 7,300          | 5,900                 | 5,900    | S             | 500                      | 400               | 100    | 100             | 300                | 200                     | 300    | S         |
| Environ science.....     | 2,200          | 1,600                 | 1,500    | S             | 200                      | 100               | 100    | S               | 100                | S                       | 200    | S         |
| Men.....                 | 1,600          | 1,200                 | 1,200    | S             | 100                      | 100               | S      | S               | S                  | S                       | 200    | S         |
| Women.....               | 600            | 500                   | 400      | S             | 100                      | S                 | 100    | S               | S                  | S                       | S      | S         |
| Life sciences.....       | 35,300         | 16,400                | 15,400   | 1,100         | 6,100                    | 2,400             | 3,700  | 1,700           | 1,400              | 3,000                   | 6,600  | S         |
| Men.....                 | 17,700         | 9,400                 | 8,400    | 1,000         | 2,900                    | 1,200             | 1,700  | 400             | 1,000              | 1,700                   | 2,400  | S         |
| Women.....               | 17,500         | 7,000                 | 7,000    | 100           | 3,200                    | 1,200             | 2,000  | 1,300           | 500                | 1,300                   | 4,200  | S         |
| Biology.....             | 23,100         | 10,100                | 9,700    | 400           | 4,300                    | 1,400             | 2,900  | 1,100           | 400                | 1,900                   | 5,200  | S         |
| Men.....                 | 10,100         | 5,100                 | 4,700    | 400           | 2,000                    | 600               | 1,400  | 200             | 200                | 900                     | 1,700  | S         |
| Women.....               | 13,000         | 5,000                 | 5,000    | S             | 2,300                    | 800               | 1,500  | 800             | 200                | 1,000                   | 3,500  | S         |
| Agr science.....         | 12,200         | 6,300                 | 5,700    | 600           | 1,800                    | 1,000             | 800    | 700             | 1,000              | 1,000                   | 1,400  | S         |
| Men.....                 | 7,600          | 4,300                 | 3,700    | 600           | 900                      | 600               | 300    | 200             | 700                | 700                     | 700    | S         |
| Women.....               | 4,600          | 2,000                 | 1,900    | 100           | 900                      | 400               | 500    | 500             | 300                | 300                     | 700    | S         |
| Psychology.....          | 32,300         | 13,200                | 12,900   | 400           | 4,000                    | 800               | 3,200  | 6,800           | 800                | 2,900                   | 4,500  | 200       |
| Men.....                 | 9,300          | 6,100                 | 6,100    | S             | 800                      | 200               | 600    | 1,100           | 200                | 100                     | 1,000  | S         |
| Women.....               | 22,900         | 7,100                 | 6,200    | 400           | 3,200                    | 600               | 2,600  | 5,600           | 600                | 2,800                   | 3,400  | 200       |
| Social sciences.....     | 60,000         | 36,700                | 34,900   | 1,800         | 5,400                    | 1,200             | 4,200  | 3,400           | 3,000              | 4,600                   | 6,700  | 200       |
| Men.....                 | 32,600         | 21,300                | 20,100   | 1,200         | 2,300                    | 700               | 1,600  | 400             | 2,000              | 3,000                   | 3,400  | S         |
| Women.....               | 27,400         | 15,400                | 14,700   | 600           | 3,000                    | 500               | 2,600  | 3,000           | 1,000              | 1,600                   | 3,200  | 200       |
| Economics.....           | 20,100         | 17,100                | 16,100   | 1,000         | 300                      | S                 | 300    | 200             | 1,200              | 500                     | 900    | S         |
| Men.....                 | 15,300         | 12,900                | 11,900   | 1,000         | 300                      | S                 | 300    | S               | 800                | 500                     | 700    | S         |
| Women.....               | 4,900          | 4,200                 | 4,200    | S             | S                        | S                 | S      | 200             | 400                | S                       | 200    | S         |
| Soc/anthro.....          | 14,000         | 6,200                 | 6,000    | 200           | 2,400                    | 800               | 1,700  | 1,300           | 400                | 1,500                   | 1,900  | 200       |
| Men.....                 | 4,700          | 1,800                 | 1,800    | S             | 1,000                    | 500               | 400    | 400             | 100                | 1,100                   | 400    | S         |
| Women.....               | 9,300          | 4,400                 | 4,200    | 200           | 1,500                    | 200               | 1,200  | 900             | 400                | 400                     | 1,500  | 200       |
| Other soc sciences.....  | 25,900         | 13,400                | 12,800   | 600           | 2,600                    | 400               | 2,200  | 1,900           | 1,400              | 2,600                   | 3,900  | S         |
| Men.....                 | 12,600         | 6,600                 | 6,400    | 200           | 1,100                    | 200               | 800    | S               | 1,200              | 1,500                   | 2,300  | S         |
| Women.....               | 13,300         | 6,800                 | 6,400    | 400           | 1,500                    | 200               | 1,300  | 1,900           | 200                | 1,200                   | 1,600  | S         |

See explanatory information and SOURCE at end of table.



Table B-26. 1969 science and engineering bachelor's-degree recipients, by field of degree, sex, and type of employer: 1990

| Field of degree and sex | Total employed | Type of employer      |          |               |                          |                   |       |                 |                    |                         |       |           |
|-------------------------|----------------|-----------------------|----------|---------------|--------------------------|-------------------|-------|-----------------|--------------------|-------------------------|-------|-----------|
|                         |                | Business and industry |          |               | Educational institutions |                   |       | Non-profit orgs | Federal Government | State/local governments | Other | No report |
|                         |                | Total                 | Industry | Self-employed | Total                    | 4-yr college univ | Other |                 |                    |                         |       |           |
| Total engineering.....  | 62,600         | 49,100                | 48,300   | 900           | 1,800                    | 1,200             | 500   | 400             | 3,800              | 2,600                   | 4,700 | 200       |
| Men.....                | 52,900         | 41,200                | 40,400   | 900           | 1,400                    | 800               | 500   | 300             | 3,300              | 2,300                   | 4,300 | 200       |
| Women.....              | 9,500          | 7,900                 | 7,900    | S             | 400                      | 400               | S     | 100             | 500                | 300                     | 400   | S         |
| Aero/astro.....         | 2,900          | 1,700                 | 1,700    | S             | S                        | S                 | S     | S               | 400                | S                       | 700   | S         |
| Men.....                | 2,700          | 1,500                 | 1,500    | S             | S                        | S                 | S     | S               | 400                | S                       | 600   | S         |
| Women.....              | 200            | 200                   | 200      | S             | S                        | S                 | S     | S               | S                  | S                       | S     | S         |
| Chemical.....           | 3,000          | 2,600                 | 2,600    | S             | 100                      | S                 | S     | S               | 100                | 100                     | 100   | S         |
| Men.....                | 1,900          | 1,700                 | 1,700    | S             | 100                      | S                 | S     | S               | S                  | S                       | S     | S         |
| Women.....              | 1,000          | 900                   | 900      | S             | S                        | S                 | S     | 100             | S                  | S                       | S     | S         |
| Civil.....              | 6,400          | 4,400                 | 4,300    | 200           | S                        | S                 | S     | S               | 200                | 1,300                   | 500   | 100       |
| Men.....                | 5,600          | 3,800                 | 3,600    | 200           | S                        | S                 | S     | S               | 200                | 1,200                   | 400   | 100       |
| Women.....              | 800            | 600                   | 600      | S             | S                        | S                 | S     | S               | S                  | 100                     | S     | S         |
| Elect/electron.....     | 24,100         | 19,600                | 19,300   | 400           | 1,100                    | 700               | 300   | 200             | 1,400              | 600                     | 1,100 | 100       |
| Men.....                | 21,100         | 17,200                | 16,900   | 400           | 900                      | 500               | 300   | 100             | 1,200              | 600                     | 1,000 | 100       |
| Women.....              | 3,100          | 2,400                 | 2,400    | S             | 200                      | 200               | S     | 100             | 300                | S                       | 100   | S         |
| Industrial.....         | 4,900          | 4,100                 | 4,100    | S             | S                        | S                 | S     | S               | 300                | 100                     | 300   | S         |
| Men.....                | 3,500          | 2,800                 | 2,800    | S             | S                        | S                 | S     | S               | 200                | 100                     | 300   | S         |
| Women.....              | 1,500          | 1,300                 | 1,300    | S             | S                        | S                 | S     | S               | 100                | S                       | S     | S         |
| Materials.....          | 600            | 500                   | 500      | S             | S                        | S                 | S     | S               | S                  | S                       | S     | S         |
| Men.....                | 400            | 400                   | 300      | S             | S                        | S                 | S     | S               | S                  | S                       | S     | S         |
| Women.....              | 200            | 100                   | 100      | S             | S                        | S                 | S     | S               | S                  | S                       | S     | S         |
| Mechanical.....         | 13,100         | 10,300                | 10,200   | 100           | 200                      | 100               | S     | 100             | 1,100              | 200                     | 1,200 | S         |
| Men.....                | 11,800         | 9,100                 | 9,000    | 100           | 100                      | 100               | S     | 100             | 1,100              | 200                     | 1,200 | S         |
| Women.....              | 1,300          | 1,200                 | 1,200    | S             | S                        | S                 | S     | S               | S                  | S                       | 100   | S         |
| Mining.....             | 300            | 200                   | 200      | S             | S                        | S                 | S     | S               | S                  | S                       | S     | S         |
| Men.....                | 200            | 200                   | 200      | S             | S                        | S                 | S     | S               | S                  | S                       | S     | S         |
| Women.....              | 100            | 100                   | 100      | S             | S                        | S                 | S     | S               | S                  | S                       | S     | S         |
| Nuclear.....            | 400            | 200                   | 200      | S             | S                        | S                 | S     | S               | S                  | S                       | 100   | S         |
| Men.....                | 300            | 200                   | 200      | S             | S                        | S                 | S     | S               | S                  | S                       | 100   | S         |
| Women.....              | 100            | S                     | S        | S             | S                        | S                 | S     | S               | S                  | S                       | S     | S         |
| Petroleum.....          | 400            | 300                   | 300      | S             | S                        | S                 | S     | S               | S                  | S                       | S     | S         |
| Men.....                | 300            | 300                   | 300      | S             | S                        | S                 | S     | S               | S                  | S                       | S     | S         |
| Women.....              | 100            | 100                   | 100      | S             | S                        | S                 | S     | S               | S                  | S                       | S     | S         |
| Other engineering.....  | 6,500          | 5,100                 | 4,900    | 100           | 300                      | 200               | 100   | S               | 200                | 300                     | 600   | S         |
| Men.....                | 5,200          | 4,000                 | 3,800    | 100           | 300                      | 100               | 100   | S               | 100                | 200                     | 600   | S         |
| Women.....              | 1,300          | 1,100                 | 1,100    | S             | 100                      | 100               | S     | S               | S                  | 100                     | S     | S         |

KEY: S = Data suppressed for statistical reasons  
 NOTES: Because of rounding, components may not add to totals.  
 Data exclude those on full-time graduate students.  
 SOURCE: National Science Foundation/SRS, 1990 New Entrants Survey

Table 8-27. 1989 science and engineering bachelor's-degree recipients, by field of degree, sex, and primary work activity: 1990

| Field of degree and sex  | Total employed | Primary work activity    |       |         |             |                           |        |            |
|--------------------------|----------------|--------------------------|-------|---------|-------------|---------------------------|--------|------------|
|                          |                | Research and development |       |         |             | Management/administration |        |            |
|                          |                | Total                    | Basic | Applied | Development | Total                     | Of R&D | Of non-R&D |
| Total, all fields.....   | 244,100        | 47,400                   | 5,100 | 11,800  | 30,500      | 32,900                    | 5,900  | 27,100     |
| Men.....                 | 149,400        | 32,900                   | 2,700 | 5,300   | 24,900      | 19,500                    | 3,700  | 15,800     |
| Women.....               | 94,700         | 14,500                   | 2,400 | 6,500   | 5,600       | 13,400                    | 2,100  | 11,300     |
| Total sciences.....      | 181,600        | 24,600                   | 4,700 | 9,600   | 10,200      | 26,300                    | 4,400  | 21,800     |
| Men.....                 | 96,500         | 13,600                   | 2,400 | 3,900   | 7,400       | 13,600                    | 2,500  | 11,200     |
| Women.....               | 85,100         | 10,900                   | 2,300 | 5,800   | 2,800       | 12,600                    | 1,900  | 10,700     |
| Physical sciences.....   | 7,900          | 2,400                    | 600   | 800     | 1,000       | 700                       | 100    | 600        |
| Men.....                 | 5,000          | 1,600                    | 500   | 500     | 600         | 500                       | 5      | 400        |
| Women.....               | 2,800          | 800                      | 5     | 400     | 400         | 200                       | 100    | 200        |
| Chemistry.....           | 4,500          | 1,700                    | 400   | 600     | 700         | 500                       | 100    | 400        |
| Men.....                 | 2,500          | 1,000                    | 400   | 300     | 300         | 200                       | 5      | 200        |
| Women.....               | 2,000          | 700                      | 5     | 300     | 400         | 200                       | 100    | 200        |
| Physics/astronomy.....   | 2,500          | 600                      | 100   | 200     | 300         | 200                       | 5      | 200        |
| Men.....                 | 2,200          | 500                      | 100   | 100     | 300         | 200                       | 5      | 200        |
| Women.....               | 400            | 100                      | 5     | 5       | 100         | 5                         | 5      | 5          |
| Other phys sciences..... | 900            | 100                      | 5     | 100     | 5           | 100                       | 5      | 100        |
| Men.....                 | 400            | 100                      | 5     | 5       | 5           | 100                       | 5      | 100        |
| Women.....               | 400            | 100                      | 5     | 100     | 5           | 5                         | 5      | 5          |
| Math/statistics.....     | 13,400         | 1,000                    | 300   | 300     | 400         | 900                       | 200    | 700        |
| Men.....                 | 6,900          | 500                      | 100   | 100     | 300         | 500                       | 100    | 400        |
| Women.....               | 6,500          | 500                      | 100   | 300     | 100         | 400                       | 100    | 300        |
| Computer science.....    | 30,600         | 6,700                    | 200   | 400     | 6,100       | 2,000                     | 500    | 1,500      |
| Men.....                 | 23,300         | 5,400                    | 100   | 300     | 5,000       | 1,600                     | 400    | 1,200      |
| Women.....               | 7,300          | 1,300                    | 100   | 100     | 1,100       | 400                       | 100    | 300        |
| Environ science.....     | 2,200          | 400                      | 200   | 200     | 5           | 200                       | 5      | 200        |
| Men.....                 | 1,600          | 300                      | 200   | 100     | 5           | 100                       | 5      | 100        |
| Women.....               | 600            | 100                      | 5     | 100     | 5           | 100                       | 5      | 100        |
| Life sciences.....       | 35,300         | 8,200                    | 3,000 | 3,400   | 1,900       | 4,100                     | 600    | 3,500      |
| Men.....                 | 17,700         | 3,700                    | 1,100 | 1,500   | 1,100       | 1,900                     | 500    | 1,400      |
| Women.....               | 17,500         | 4,600                    | 1,800 | 1,900   | 800         | 2,200                     | 100    | 2,000      |
| Biology.....             | 23,100         | 6,600                    | 2,800 | 2,600   | 1,200       | 1,900                     | 5      | 1,900      |
| Men.....                 | 10,100         | 2,800                    | 1,100 | 1,200   | 500         | 500                       | 5      | 500        |
| Women.....               | 13,000         | 3,800                    | 1,700 | 1,400   | 700         | 1,400                     | 5      | 1,400      |
| Agr science.....         | 12,200         | 1,600                    | 100   | 800     | 700         | 2,200                     | 600    | 1,600      |
| Men.....                 | 7,600          | 900                      | 5     | 300     | 600         | 1,400                     | 500    | 1,000      |
| Women.....               | 4,600          | 700                      | 100   | 500     | 100         | 700                       | 100    | 600        |
| Psychology.....          | 32,300         | 2,500                    | 400   | 1,600   | 600         | 5,000                     | 800    | 4,300      |
| Men.....                 | 9,300          | 800                      | 200   | 400     | 200         | 1,600                     | 200    | 1,400      |
| Women.....               | 22,900         | 1,800                    | 200   | 1,200   | 400         | 3,500                     | 600    | 2,900      |
| Social sciences.....     | 60,000         | 3,300                    | 300   | 2,800   | 200         | 13,300                    | 2,300  | 11,100     |
| Men.....                 | 32,600         | 1,500                    | 500   | 1,100   | 200         | 7,500                     | 1,300  | 6,200      |
| Women.....               | 27,400         | 1,800                    | 100   | 1,700   | 5           | 5,900                     | 1,000  | 4,800      |
| Economics.....           | 20,100         | 1,300                    | 200   | 1,100   | 5           | 5,400                     | 1,200  | 4,200      |
| Men.....                 | 15,300         | 600                      | 200   | 500     | 5           | 4,200                     | 1,000  | 3,200      |
| Women.....               | 4,900          | 700                      | 5     | 700     | 5           | 1,200                     | 200    | 1,000      |
| Socio/anthro.....        | 14,000         | 600                      | 5     | 600     | 5           | 1,900                     | 5      | 1,900      |
| Men.....                 | 4,700          | 200                      | 5     | 200     | 5           | 600                       | 5      | 600        |
| Women.....               | 9,300          | 400                      | 5     | 400     | 5           | 1,300                     | 5      | 1,300      |
| Other soc sciences.....  | 25,900         | 1,400                    | 100   | 1,100   | 200         | 6,100                     | 1,100  | 5,000      |
| Men.....                 | 12,600         | 600                      | 5     | 400     | 200         | 2,700                     | 200    | 2,400      |
| Women.....               | 13,300         | 700                      | 100   | 600     | 5           | 3,400                     | 900    | 2,600      |

See explanatory information and SOURCE at end of table.

Table B-27. 1989 science and engineering bachelor's-degree recipients, by field of degree, sex, and primary work activity: 1990

| Field of degree and sex | Primary work activity |                       |                               |        |                       |        |           |
|-------------------------|-----------------------|-----------------------|-------------------------------|--------|-----------------------|--------|-----------|
|                         | Teaching              | Production/inspection | Reporting/stat work/computing | Sales  | Professional services | Other  | No report |
| Total, all fields.....  | 24,900                | 31,800                | 35,500                        | 25,300 | 3,800                 | 40,800 | 1,700     |
| Men.....                | 8,500                 | 25,300                | 24,100                        | 15,000 | 1,400                 | 21,700 | 900       |
| Women.....              | 16,400                | 6,400                 | 11,400                        | 10,300 | 2,400                 | 19,200 | 800       |
| Total sciences.....     | 23,700                | 17,600                | 29,400                        | 23,000 | 3,700                 | 32,100 | 1,300     |
| Men.....                | 7,500                 | 13,200                | 19,200                        | 12,900 | 1,400                 | 14,400 | 600       |
| Women.....              | 16,200                | 4,500                 | 10,200                        | 10,000 | 2,300                 | 17,600 | 700       |
| Physical sciences.....  | 800                   | 1,300                 | 800                           | 900    | S                     | 1,000  | S         |
| Men.....                | 300                   | 900                   | 500                           | 500    | S                     | 800    | S         |
| Women.....              | 500                   | 400                   | 300                           | 300    | S                     | 200    | S         |
| Chemistry.....          | 100                   | 1,000                 | 200                           | 600    | S                     | 500    | S         |
| Men.....                | S                     | 600                   | S                             | 300    | S                     | 300    | S         |
| Women.....              | 100                   | 400                   | 100                           | 300    | S                     | 200    | S         |
| Physics/astronomy.....  | 200                   | 300                   | 500                           | 300    | S                     | 400    | S         |
| Men.....                | 100                   | 300                   | 400                           | 300    | S                     | 400    | S         |
| Women.....              | 100                   | S                     | 100                           | S      | S                     | S      | S         |
| Other phys sciences...  | 500                   | S                     | S                             | S      | S                     | 100    | S         |
| Men.....                | 100                   | S                     | S                             | S      | S                     | 100    | S         |
| Women.....              | 400                   | S                     | S                             | S      | S                     | S      | S         |
| Math/statistics.....    | 3,800                 | 900                   | 3,400                         | 1,400  | S                     | 1,900  | 100       |
| Men.....                | 1,500                 | 600                   | 2,100                         | 600    | S                     | 1,200  | 100       |
| Women.....              | 2,300                 | 300                   | 1,300                         | 800    | S                     | 800    | S         |
| Computer science.....   | 700                   | 2,200                 | 14,900                        | 700    | 100                   | 3,100  | 300       |
| Men.....                | 500                   | 1,600                 | 10,800                        | 500    | S                     | 2,600  | 300       |
| Women.....              | 100                   | 700                   | 4,100                         | 100    | 100                   | 500    | S         |
| Environ science.....    | 200                   | 500                   | 300                           | 100    | S                     | 500    | S         |
| Men.....                | 100                   | 400                   | 200                           | 100    | S                     | 300    | S         |
| Women.....              | 100                   | 100                   | 100                           | S      | S                     | 200    | S         |
| Life sciences.....      | 4,200                 | 7,400                 | 1,200                         | 2,300  | 1,200                 | 6,400  | 300       |
| Men.....                | 1,800                 | 5,600                 | 800                           | 700    | 300                   | 2,900  | S         |
| Women.....              | 2,400                 | 1,800                 | 400                           | 1,600  | 900                   | 3,500  | 300       |
| Biology.....            | 3,300                 | 4,800                 | 500                           | 1,500  | 900                   | 3,500  | S         |
| Men.....                | 1,400                 | 3,600                 | 200                           | S      | 100                   | 1,500  | S         |
| Women.....              | 1,900                 | 1,200                 | 300                           | 1,400  | 900                   | 2,000  | S         |
| Agr science.....        | 900                   | 2,600                 | 600                           | 900    | 300                   | 2,900  | 300       |
| Men.....                | 400                   | 2,100                 | 500                           | 600    | 300                   | 1,400  | S         |
| Women.....              | 500                   | 500                   | 100                           | 200    | S                     | 1,500  | 300       |
| Psychology.....         | 7,800                 | 1,100                 | 1,500                         | 4,700  | 1,500                 | 7,900  | 200       |
| Men.....                | 1,600                 | 700                   | 800                           | 2,100  | 500                   | 1,300  | S         |
| Women.....              | 6,200                 | 400                   | 800                           | 2,600  | 1,000                 | 6,600  | 200       |
| Social sciences.....    | 6,300                 | 4,200                 | 7,400                         | 12,900 | 900                   | 11,200 | 400       |
| Men.....                | 1,700                 | 3,300                 | 4,100                         | 8,400  | 600                   | 5,300  | 200       |
| Women.....              | 4,600                 | 800                   | 3,300                         | 4,600  | 300                   | 5,900  | 200       |
| Economics.....          | 500                   | 1,100                 | 2,800                         | 6,300  | S                     | 2,500  | 200       |
| Men.....                | 500                   | 900                   | 2,200                         | 5,200  | S                     | 1,500  | 200       |
| Women.....              | S                     | 200                   | 600                           | 1,200  | S                     | 1,000  | S         |
| Socio/anthro.....       | 2,000                 | 500                   | 2,400                         | 2,200  | 600                   | 3,600  | 200       |
| Men.....                | 200                   | 500                   | 1,000                         | 200    | 600                   | 1,300  | S         |
| Women.....              | 1,800                 | S                     | 1,400                         | 2,000  | S                     | 2,300  | 200       |
| Other soc sciences....  | 3,900                 | 2,600                 | 2,100                         | 4,400  | 300                   | 5,100  | S         |
| Men.....                | 1,000                 | 1,900                 | 900                           | 3,000  | S                     | 2,500  | S         |
| Women.....              | 2,800                 | 700                   | 1,300                         | 1,400  | 300                   | 2,600  | S         |

See explanatory information and SOURCE at end of table.

Table B-27, 1989 science and engineering bachelor's-degree recipients,  
by field of degree, sex, and primary work activity: 1990

| Field of degree<br>and sex | Total<br>employed | Primary work activity    |       |         |                  |                           |        |            |
|----------------------------|-------------------|--------------------------|-------|---------|------------------|---------------------------|--------|------------|
|                            |                   | Research and development |       |         |                  | Management/administration |        |            |
|                            |                   | Total                    | Basic | Applied | Develop-<br>ment | Total                     | Of R&D | Of non-R&D |
| Total engineering.....     | 62,600            | 22,800                   | 400   | 2,100   | 20,200           | 6,700                     | 1,500  | 5,200      |
| Men.....                   | 52,900            | 19,300                   | 400   | 1,500   | 17,500           | 5,900                     | 1,300  | 4,600      |
| Women.....                 | 9,600             | 3,500                    | S     | 700     | 2,800            | 800                       | 200    | 600        |
| Aero/astro.....            | 2,900             | 1,100                    | S     | 200     | 900              | 300                       | 100    | 200        |
| Men.....                   | 2,700             | 1,000                    | S     | 100     | 800              | 300                       | 100    | 200        |
| Women.....                 | 200               | 100                      | S     | S       | 100              | S                         | S      | S          |
| Chemical.....              | 3,000             | 1,500                    | 100   | 200     | 1,200            | 300                       | 100    | 200        |
| Men.....                   | 1,900             | 1,000                    | 100   | 100     | 800              | 200                       | 100    | 100        |
| Women.....                 | 1,000             | 500                      | S     | S       | 400              | 100                       | S      | 100        |
| Civil.....                 | 6,400             | 1,300                    | S     | 100     | 1,200            | 1,000                     | 100    | 1,000      |
| Men.....                   | 5,600             | 1,100                    | S     | 100     | 1,000            | 900                       | 100    | 900        |
| Women.....                 | 800               | 200                      | S     | S       | 200              | 100                       | S      | 100        |
| Elect/electron.....        | 24,100            | 9,500                    | 100   | 1,000   | 8,400            | 2,700                     | 800    | 1,900      |
| Men.....                   | 21,100            | 8,300                    | 100   | 700     | 7,500            | 2,400                     | 600    | 1,700      |
| Women.....                 | 3,100             | 1,200                    | S     | 300     | 900              | 300                       | 100    | 100        |
| Industrial.....            | 4,900             | 900                      | S     | 100     | 800              | 700                       | 200    | 500        |
| Men.....                   | 3,500             | 500                      | S     | S       | 500              | 500                       | 100    | 400        |
| Women.....                 | 1,500             | 400                      | S     | 100     | 300              | 100                       | S      | 100        |
| Materials.....             | 600               | 300                      | S     | 100     | 200              | 100                       | S      | S          |
| Men.....                   | 400               | 200                      | S     | S       | 100              | S                         | S      | S          |
| Women.....                 | 200               | 100                      | S     | 100     | S                | S                         | S      | S          |
| Mechanical.....            | 13,100            | 6,000                    | 100   | 400     | 5,500            | 1,200                     | 100    | 1,100      |
| Men.....                   | 11,800            | 5,300                    | 100   | 200     | 5,000            | 1,100                     | 100    | 1,100      |
| Women.....                 | 1,300             | 600                      | S     | 100     | 500              | 100                       | S      | 100        |
| Mining.....                | 300               | 100                      | S     | S       | S                | S                         | S      | S          |
| Men.....                   | 200               | S                        | S     | S       | S                | S                         | S      | S          |
| Women.....                 | 100               | S                        | S     | S       | S                | S                         | S      | S          |
| Nuclear.....               | 400               | 100                      | S     | S       | 100              | S                         | S      | S          |
| Men.....                   | 300               | 100                      | S     | S       | 100              | S                         | S      | S          |
| Women.....                 | 100               | S                        | S     | S       | S                | S                         | S      | S          |
| Petroleum.....             | 400               | 100                      | S     | S       | S                | S                         | S      | S          |
| Men.....                   | 300               | 100                      | S     | S       | S                | S                         | S      | S          |
| Women.....                 | 100               | S                        | S     | S       | S                | S                         | S      | S          |
| Other engineering.....     | 6,500             | 2,100                    | S     | 200     | 1,900            | 400                       | 100    | 300        |
| Men.....                   | 5,200             | 1,700                    | S     | 100     | 1,500            | 400                       | 100    | 300        |
| Women.....                 | 1,300             | 400                      | S     | 100     | 300              | S                         | S      | S          |

See explanatory information and SOURCE at end of table.

Table B-27. 1989 science and engineering bachelor's-degree recipients, by field of degree, sex, and primary work activity: 1990

| Field of degree and sex | Primary work activity |                       |                               |       |                       |       |           |
|-------------------------|-----------------------|-----------------------|-------------------------------|-------|-----------------------|-------|-----------|
|                         | Teaching              | Production/inspection | Reporting/stat work/computing | Sales | Professional services | Other | No report |
| Total engineering.....  | 1,200                 | 14,200                | 6,200                         | 2,300 | 100                   | 8,800 | 400       |
| Men.....                | 1,000                 | 12,200                | 4,900                         | 2,100 | S                     | 7,300 | 300       |
| Women.....              | 200                   | 2,000                 | 1,200                         | 300   | 100                   | 1,500 | 100       |
| Aero/astro.....         | 100                   | 300                   | 200                           | S     | S                     | 800   | S         |
| Men.....                | 100                   | 200                   | 200                           | S     | S                     | 800   | S         |
| Women.....              | S                     | 100                   | S                             | S     | S                     | S     | S         |
| Chemical.....           | S                     | 800                   | 100                           | S     | S                     | 300   | S         |
| Men.....                | S                     | 500                   | 100                           | S     | S                     | 100   | S         |
| Women.....              | S                     | 300                   | S                             | S     | S                     | 100   | S         |
| Civil.....              | S                     | 1,600                 | 500                           | 100   | S                     | 1,800 | 100       |
| Men.....                | S                     | 1,600                 | 400                           | 100   | S                     | 1,500 | 100       |
| Women.....              | S                     | 100                   | 100                           | S     | S                     | 300   | S         |
| Elect/electron.....     | 400                   | 5,200                 | 3,000                         | 900   | S                     | 2,300 | 200       |
| Men.....                | 400                   | 4,500                 | 2,600                         | 900   | S                     | 2,000 | 200       |
| Women.....              | 100                   | 700                   | 400                           | 100   | S                     | 300   | S         |
| Industrial.....         | 100                   | 1,400                 | 800                           | 400   | S                     | 600   | 100       |
| Men.....                | S                     | 1,100                 | 600                           | 300   | S                     | 400   | S         |
| Women.....              | 100                   | 300                   | 200                           | 100   | S                     | 200   | S         |
| Materials.....          | S                     | 100                   | S                             | S     | S                     | 100   | S         |
| Men.....                | S                     | 100                   | S                             | S     | S                     | S     | S         |
| Women.....              | S                     | S                     | S                             | S     | S                     | S     | S         |
| Mechanical.....         | 400                   | 3,100                 | 600                           | 400   | S                     | 1,400 | S         |
| Men.....                | 400                   | 2,700                 | 600                           | 400   | S                     | 1,200 | S         |
| Women.....              | S                     | 400                   | S                             | S     | S                     | 200   | S         |
| Mining.....             | S                     | 100                   | S                             | S     | S                     | 100   | S         |
| Men.....                | S                     | 100                   | S                             | S     | S                     | 100   | S         |
| Women.....              | S                     | S                     | S                             | S     | S                     | S     | S         |
| Nuclear.....            | S                     | S                     | 100                           | S     | 100                   | S     | S         |
| Men.....                | S                     | S                     | 100                           | S     | 100                   | S     | S         |
| Women.....              | S                     | S                     | S                             | S     | S                     | S     | S         |
| Petroleum.....          | S                     | 200                   | S                             | S     | S                     | S     | S         |
| Men.....                | S                     | 200                   | S                             | S     | S                     | S     | S         |
| Women.....              | S                     | S                     | S                             | S     | S                     | S     | S         |
| Other engineering.....  | 100                   | 1,200                 | 800                           | 400   | S                     | 1,400 | S         |
| Men.....                | 100                   | 1,200                 | 300                           | 400   | S                     | 1,100 | S         |
| Women.....              | S                     | 100                   | 500                           | S     | S                     | 300   | S         |

KEY: S = Data suppressed for statistical reasons

NOTES: Because of rounding, components may not add to totals.  
Data exclude those on full-time graduate students.

SOURCE: National Science Foundation/SRS, 1990 New Entrants Survey

Table B-28. 1989 science and engineering bachelor's-degree recipients, by field of degree, type of employer, and primary work activity: 1990

| Field of degree and type of employer | Total employed | Primary work activity    |              |               |               |                           |              |               |
|--------------------------------------|----------------|--------------------------|--------------|---------------|---------------|---------------------------|--------------|---------------|
|                                      |                | Research and development |              |               |               | Management/administration |              |               |
|                                      |                | Total                    | Basic        | Applied       | Development   | Total                     | Of R&D       | Of non-R&D    |
| <b>Total, all fields.....</b>        | <b>244,700</b> | <b>47,500</b>            | <b>5,100</b> | <b>11,800</b> | <b>30,600</b> | <b>32,900</b>             | <b>5,900</b> | <b>27,100</b> |
| Business and Industry.....           | 155,600        | 33,600                   | 1,100        | 5,300         | 27,200        | 21,400                    | 3,800        | 17,600        |
| Industry.....                        | 150,600        | 33,300                   | 1,100        | 5,300         | 26,900        | 20,100                    | 3,600        | 16,500        |
| Self employed.....                   | 5,000          | 300                      | \$           | \$            | 300           | 1,300                     | 200          | 1,100         |
| Educ inst, total.....                | 24,500         | 4,100                    | 1,600        | 2,000         | 500           | 1,100                     | 300          | 900           |
| 4-yr college/univ.....               | 8,100          | 2,500                    | 1,100        | 1,000         | 400           | 600                       | 100          | 600           |
| Other.....                           | 16,400         | 1,500                    | 500          | 900           | 100           | 500                       | 200          | 300           |
| Nonprofit orgs.....                  | 13,000         | 1,400                    | 600          | 400           | 300           | 1,700                     | 200          | 1,400         |
| Federal Government.....              | 10,400         | 3,400                    | 300          | 1,600         | 1,500         | 1,000                     | 400          | 600           |
| State/local govt.....                | 14,300         | 2,500                    | 800          | 1,000         | 600           | 2,500                     | 400          | 2,100         |
| Other.....                           | 26,000         | 2,500                    | 700          | 1,500         | 300           | 5,300                     | 800          | 4,600         |
| No report.....                       | 1,000          | 100                      | \$           | \$            | 100           | \$                        | \$           | \$            |
| <b>Total sciences.....</b>           | <b>182,000</b> | <b>24,600</b>            | <b>4,700</b> | <b>9,600</b>  | <b>10,200</b> | <b>26,300</b>             | <b>4,400</b> | <b>21,800</b> |
| Business and Industry.....           | 106,300        | 14,200                   | 800          | 4,100         | 9,300         | 16,900                    | 2,700        | 14,300        |
| Industry.....                        | 102,200        | 14,100                   | 800          | 4,100         | 9,200         | 15,900                    | 2,500        | 13,400        |
| Self employed.....                   | 4,100          | 200                      | \$           | \$            | 200           | 1,000                     | 100          | 900           |
| Educ inst, total.....                | 22,700         | 3,200                    | 1,600        | 1,500         | 100           | 1,000                     | 300          | 800           |
| 4-yr college/univ.....               | 6,900          | 1,800                    | 1,100        | 700           | 100           | 600                       | 100          | 500           |
| Other.....                           | 15,800         | 1,400                    | 500          | 900           | \$            | 500                       | 200          | 300           |
| Nonprofit orgs.....                  | 12,600         | 1,300                    | 600          | 400           | 200           | 1,600                     | 200          | 1,300         |
| Federal Government.....              | 6,600          | 1,700                    | 300          | 1,300         | 200           | 500                       | 200          | 300           |
| State/local govt.....                | 11,600         | 2,100                    | 800          | 1,000         | 300           | 2,100                     | 400          | 1,700         |
| Other.....                           | 21,400         | 2,000                    | 700          | 1,300         | 100           | 4,200                     | 600          | 3,500         |
| No report.....                       | 800            | \$                       | \$           | \$            | \$            | \$                        | \$           | \$            |
| Physical sciences.....               | 7,900          | 2,400                    | 600          | 800           | 1,000         | 700                       | 100          | 600           |
| Business and Industry.....           | 5,100          | 1,500                    | 100          | 500           | 900           | 300                       | 100          | 300           |
| Industry.....                        | 5,000          | 1,500                    | 100          | 500           | 900           | 300                       | 100          | 300           |
| Self employed.....                   | 100            | \$                       | \$           | \$            | \$            | \$                        | \$           | \$            |
| Educ inst, total.....                | 1,300          | 400                      | 200          | 200           | \$            | 100                       | \$           | 100           |
| 4-yr college/univ.....               | 300            | 200                      | 200          | 200           | \$            | \$                        | \$           | \$            |
| Other.....                           | 900            | 200                      | \$           | \$            | \$            | \$                        | \$           | \$            |
| Nonprofit orgs.....                  | 200            | \$                       | \$           | 100           | \$            | \$                        | \$           | \$            |
| Federal Government.....              | 300            | 100                      | \$           | \$            | \$            | \$                        | \$           | \$            |
| State/local govt.....                | 200            | 100                      | \$           | \$            | \$            | \$                        | \$           | \$            |
| Other.....                           | 800            | 300                      | 200          | \$            | \$            | 300                       | \$           | 300           |
| No report.....                       | \$             | \$                       | \$           | \$            | \$            | \$                        | \$           | \$            |
| Math/statistics.....                 | 13,400         | 1,000                    | 300          | 300           | 400           | 900                       | 200          | 700           |
| Business and Industry.....           | 7,500          | 700                      | 100          | 200           | 400           | 600                       | 200          | 400           |
| Industry.....                        | 7,400          | 600                      | 100          | 200           | 300           | 500                       | 200          | 400           |
| Self employed.....                   | 100            | 100                      | \$           | \$            | 100           | \$                        | \$           | \$            |
| Educ inst, total.....                | 3,800          | 100                      | 100          | \$            | \$            | 100                       | \$           | 100           |
| 4-yr college/univ.....               | 600            | 100                      | 100          | \$            | \$            | 100                       | \$           | 100           |
| Other.....                           | 3,200          | \$                       | \$           | \$            | \$            | \$                        | \$           | \$            |
| Nonprofit orgs.....                  | 300            | 100                      | \$           | 100           | \$            | \$                        | \$           | \$            |
| Federal Government.....              | 100            | 100                      | \$           | 100           | \$            | \$                        | \$           | \$            |
| State/local govt.....                | 200            | \$                       | \$           | \$            | \$            | \$                        | \$           | \$            |
| Other.....                           | 1,400          | 100                      | 100          | \$            | \$            | 300                       | \$           | 200           |
| No report.....                       | 100            | \$                       | \$           | \$            | \$            | \$                        | \$           | \$            |
| Computer science.....                | 31,000         | 6,700                    | 200          | 400           | 6,100         | 2,000                     | 500          | 1,500         |
| Business and Industry.....           | 25,700         | 6,300                    | 100          | 300           | 5,900         | 1,500                     | 400          | 1,100         |
| Industry.....                        | 25,100         | 6,200                    | 100          | 300           | 5,800         | 1,400                     | 400          | 1,000         |
| Self employed.....                   | 600            | 100                      | \$           | \$            | 100           | 100                       | \$           | 100           |
| Educ inst, total.....                | 2,000          | 100                      | \$           | 100           | \$            | \$                        | \$           | \$            |
| 4-yr college/univ.....               | 1,400          | 100                      | \$           | 100           | \$            | \$                        | \$           | \$            |
| Other.....                           | 500            | \$                       | \$           | \$            | \$            | \$                        | \$           | \$            |
| Nonprofit orgs.....                  | 200            | \$                       | \$           | \$            | \$            | \$                        | \$           | \$            |
| Federal Government.....              | 1,000          | 200                      | \$           | \$            | 100           | 100                       | \$           | 100           |
| State/local govt.....                | 600            | \$                       | \$           | \$            | \$            | \$                        | \$           | \$            |
| Other.....                           | 1,200          | \$                       | \$           | \$            | \$            | 300                       | \$           | 300           |
| No report.....                       | 300            | \$                       | \$           | \$            | \$            | \$                        | \$           | \$            |

See explanatory information and SOURCE at end of table.

Table B-28. 1989 science and engineering bachelor's-degree recipients, by field of degree, type of employer, and primary work activity: 1990

| Field of degree and type of employer | Primary work activity |                       |                               |        |                       |        |           |
|--------------------------------------|-----------------------|-----------------------|-------------------------------|--------|-----------------------|--------|-----------|
|                                      | Teaching              | Production/Inspection | Reporting/stat work/computing | Sales  | Professional services | Other  | No report |
| Total, all fields.....               | 24,900                | 31,800                | 35,600                        | 25,300 | 3,800                 | 41,200 | 1,700     |
| Business and                         |                       |                       |                               |        |                       |        |           |
| Industry.....                        | 3,500                 | 24,800                | 26,900                        | 22,900 | 500                   | 21,200 | 700       |
| Industry.....                        | 3,300                 | 24,200                | 26,700                        | 22,400 | 300                   | 19,600 | 700       |
| Self employed.....                   | 200                   | 600                   | 200                           | 500    | 200                   | 1,600  |           |
| Educ inst total.....                 | 13,400                | 500                   | 2,100                         | 100    | 100                   | 1,100  |           |
| 4-yr college/univ.....               | 500                   | 500                   | 1,900                         | 100    |                       | 1,800  |           |
| Other.....                           | 12,900                |                       | 200                           |        | 100                   | 1,300  |           |
| Nonprofit orgs.....                  | 4,500                 | 200                   | 900                           | 200    | 600                   | 3,600  |           |
| Federal Government.....              | 100                   | 1,600                 | 1,800                         | 700    |                       | 1,800  |           |
| State/local govt.....                | 1,000                 | 2,200                 | 2,100                         | 300    | 300                   | 3,300  |           |
| Other.....                           | 2,400                 | 2,600                 | 1,800                         | 1,100  | 2,300                 | 8,000  | 100       |
| No report.....                       | 100                   |                       |                               |        |                       |        | 800       |
| Total sciences.....                  | 23,700                | 17,700                | 29,400                        | 23,000 | 3,700                 | 32,400 | 1,300     |
| Business and                         |                       |                       |                               |        |                       |        |           |
| Industry.....                        | 3,200                 | 13,100                | 21,800                        | 20,800 | 500                   | 15,400 | 500       |
| Industry.....                        | 3,000                 | 12,700                | 21,500                        | 20,300 | 300                   | 13,900 | 500       |
| Self employed.....                   | 200                   | 400                   | 200                           | 500    | 200                   | 1,400  |           |
| Educ inst total.....                 | 13,000                | 400                   | 2,000                         |        | 100                   | 3,000  |           |
| 4-yr college/univ.....               | 500                   | 400                   | 1,800                         |        |                       | 1,700  |           |
| Other.....                           | 12,500                |                       | 200                           |        | 100                   | 1,300  |           |
| Nonprofit orgs.....                  | 4,500                 | 200                   | 700                           | 200    | 600                   | 3,600  |           |
| Federal Government.....              | 100                   | 600                   | 1,600                         | 700    |                       | 1,400  |           |
| State/local govt.....                | 1,000                 | 1,200                 | 1,800                         | 200    | 300                   | 2,900  |           |
| Other.....                           | 2,000                 | 2,100                 | 1,500                         | 1,100  | 2,200                 | 6,200  |           |
| No report.....                       | 100                   |                       |                               |        |                       |        | 700       |
| Physical sciences.....               | 800                   | 1,300                 | 800                           | 900    |                       | 1,000  |           |
| Business and                         |                       |                       |                               |        |                       |        |           |
| Industry.....                        |                       | 1,100                 | 700                           | 800    |                       | 700    |           |
| Industry.....                        |                       | 1,100                 | 700                           | 800    |                       | 600    |           |
| Self employed.....                   |                       |                       |                               |        |                       | 100    |           |
| Educ inst total.....                 | 700                   |                       |                               |        |                       | 100    |           |
| 4-yr college/univ.....               | 100                   |                       |                               |        |                       | 100    |           |
| Other.....                           | 700                   |                       |                               |        |                       |        |           |
| Nonprofit orgs.....                  |                       |                       |                               |        |                       | 100    |           |
| Federal Government.....              |                       |                       |                               |        |                       | 100    |           |
| State/local govt.....                |                       | 100                   |                               |        |                       | 100    |           |
| Other.....                           | 100                   | 100                   |                               |        |                       | 100    |           |
| No report.....                       |                       |                       |                               |        |                       |        |           |
| Math/statistics.....                 | 3,800                 | 900                   | 3,400                         | 1,400  |                       | 1,900  | 100       |
| Business and                         |                       |                       |                               |        |                       |        |           |
| Industry.....                        | 300                   | 700                   | 2,700                         | 1,300  |                       | 1,200  | 100       |
| Industry.....                        | 300                   | 700                   | 2,700                         | 1,300  |                       | 1,200  | 100       |
| Self employed.....                   |                       |                       |                               |        |                       |        |           |
| Educ inst total.....                 | 3,300                 |                       | 100                           |        |                       | 200    |           |
| 4-yr college/univ.....               | 100                   |                       | 100                           |        |                       | 200    |           |
| Other.....                           | 3,200                 |                       |                               |        |                       |        |           |
| Nonprofit orgs.....                  | 100                   |                       |                               |        |                       | 100    |           |
| Federal Government.....              |                       |                       | 100                           |        |                       |        |           |
| State/local govt.....                |                       | 100                   |                               |        |                       |        |           |
| Other.....                           | 100                   | 100                   | 500                           | 100    |                       | 500    |           |
| No report.....                       |                       |                       |                               |        |                       |        |           |
| Computer science.....                | 700                   | 2,300                 | 14,900                        | 700    | 100                   | 3,400  | 300       |
| Business and                         |                       |                       |                               |        |                       |        |           |
| Industry.....                        | 100                   | 1,800                 | 12,300                        | 600    |                       | 3,000  |           |
| Industry.....                        | 100                   | 1,700                 | 12,300                        | 600    |                       | 2,700  |           |
| Self employed.....                   |                       |                       | 100                           |        |                       | 300    |           |
| Educ inst total.....                 | 400                   | 300                   | 1,100                         |        |                       |        |           |
| 4-yr college/univ.....               |                       | 300                   | 900                           |        |                       |        |           |
| Other.....                           | 400                   |                       | 200                           |        |                       |        |           |
| Nonprofit orgs.....                  |                       |                       | 100                           |        |                       |        |           |
| Federal Government.....              | 100                   | 100                   | 400                           | 100    |                       | 100    |           |
| State/local govt.....                |                       |                       | 400                           |        |                       | 100    |           |
| Other.....                           | 100                   | 100                   | 500                           |        |                       | 200    |           |
| No report.....                       |                       |                       |                               |        |                       |        | 300       |

See explanatory information and SOURCE at end of table.

Table B-28. 1989 science and engineering bachelor's-degree recipients, by field of degree, type of employer, and primary work activity: 1990

| Field of degree and type of employer | Total employed | Primary work activity    |       |         |             |                           |        |            |
|--------------------------------------|----------------|--------------------------|-------|---------|-------------|---------------------------|--------|------------|
|                                      |                | Research and development |       |         |             | Management/administration |        |            |
|                                      |                | Total                    | Basic | Applied | Development | Total                     | Of R&O | Of non-R&O |
| Environ science.....                 | 2,200          | 400                      | 200   | 200     | 0           | 200                       | 0      | 200        |
| Business and                         |                |                          |       |         |             |                           |        |            |
| Industry.....                        | 1,600          | 300                      | 100   | 200     | 0           | 100                       | 0      | 100        |
| Industry.....                        | 1,600          | 300                      | 100   | 200     | 0           | 100                       | 0      | 100        |
| Self employed.....                   | 0              | 0                        | 0     | 0       | 0           | 0                         | 0      | 0          |
| Educ inst, total.....                | 200            | 0                        | 0     | 0       | 0           | 0                         | 0      | 0          |
| 4-yr college/univ.....               | 100            | 0                        | 0     | 0       | 0           | 0                         | 0      | 0          |
| Other.....                           | 100            | 0                        | 0     | 0       | 0           | 0                         | 0      | 0          |
| Nonprofit orgs.....                  | 0              | 0                        | 0     | 0       | 0           | 0                         | 0      | 0          |
| Federal Government.....              | 100            | 0                        | 0     | 0       | 0           | 0                         | 0      | 0          |
| State/local govt.....                | 0              | 0                        | 0     | 0       | 0           | 0                         | 0      | 0          |
| Other.....                           | 200            | 0                        | 0     | 0       | 0           | 0                         | 0      | 0          |
| Life sciences.....                   | 35,300         | 8,200                    | 3,000 | 3,400   | 1,900       | 4,100                     | 600    | 3,500      |
| Business and                         |                |                          |       |         |             |                           |        |            |
| Industry.....                        | 16,500         | 3,600                    | 300   | 1,700   | 1,700       | 2,100                     | 300    | 1,800      |
| Industry.....                        | 15,400         | 3,600                    | 300   | 1,700   | 1,700       | 2,000                     | 200    | 1,700      |
| Self employed.....                   | 1,100          | 0                        | 0     | 0       | 0           | 200                       | 100    | 100        |
| Educ inst, total.....                | 6,100          | 1,900                    | 1,200 | 700     | 0           | 100                       | 0      | 0          |
| 4-yr college/univ.....               | 2,400          | 1,000                    | 800   | 200     | 0           | 0                         | 0      | 0          |
| Other.....                           | 3,700          | 1,000                    | 500   | 500     | 0           | 100                       | 0      | 100        |
| Nonprofit orgs.....                  | 1,700          | 500                      | 400   | 400     | 0           | 100                       | 0      | 100        |
| Federal Government.....              | 1,400          | 600                      | 200   | 400     | 0           | 100                       | 0      | 100        |
| State/local govt.....                | 3,000          | 800                      | 500   | 200     | 100         | 200                       | 0      | 200        |
| Other.....                           | 6,600          | 800                      | 300   | 500     | 0           | 1,400                     | 200    | 1,200      |
| Psychology.....                      | 32,300         | 2,500                    | 400   | 1,600   | 600         | 5,000                     | 800    | 4,300      |
| Business and                         |                |                          |       |         |             |                           |        |            |
| Industry.....                        | 13,200         | 600                      | 0     | 200     | 400         | 2,900                     | 200    | 2,700      |
| Industry.....                        | 12,900         | 600                      | 0     | 200     | 400         | 2,700                     | 200    | 2,500      |
| Self employed.....                   | 400            | 0                        | 0     | 0       | 0           | 200                       | 0      | 200        |
| Educ inst, total.....                | 4,000          | 400                      | 0     | 400     | 0           | 600                       | 200    | 400        |
| 4-yr college/univ.....               | 800            | 200                      | 0     | 200     | 0           | 400                       | 0      | 400        |
| Other.....                           | 3,200          | 200                      | 0     | 200     | 0           | 200                       | 200    | 0          |
| Nonprofit orgs.....                  | 6,800          | 700                      | 200   | 300     | 0           | 400                       | 0      | 400        |
| Federal Government.....              | 800            | 0                        | 0     | 0       | 0           | 0                         | 0      | 0          |
| State/local govt.....                | 2,900          | 500                      | 200   | 300     | 0           | 600                       | 200    | 400        |
| Other.....                           | 4,500          | 400                      | 0     | 400     | 0           | 600                       | 200    | 400        |
| No report.....                       | 200            | 0                        | 0     | 0       | 0           | 0                         | 0      | 0          |
| Social sciences.....                 | 60,000         | 3,300                    | 300   | 2,800   | 200         | 11,300                    | 2,300  | 11,100     |
| Business and                         |                |                          |       |         |             |                           |        |            |
| Industry.....                        | 36,700         | 1,300                    | 200   | 1,100   | 0           | 9,300                     | 1,500  | 7,800      |
| Industry.....                        | 34,900         | 1,300                    | 200   | 1,100   | 0           | 8,700                     | 1,500  | 7,300      |
| Self employed.....                   | 1,800          | 0                        | 0     | 0       | 0           | 500                       | 0      | 500        |
| Educ inst, total.....                | 5,400          | 200                      | 0     | 200     | 0           | 200                       | 0      | 200        |
| 4-yr college/univ.....               | 1,200          | 200                      | 0     | 200     | 0           | 0                         | 0      | 0          |
| Other.....                           | 4,200          | 0                        | 0     | 0       | 0           | 200                       | 0      | 200        |
| Nonprofit orgs.....                  | 3,400          | 800                      | 0     | 800     | 0           | 1,000                     | 200    | 800        |
| Federal Government.....              | 3,000          | 800                      | 0     | 800     | 0           | 300                       | 200    | 100        |
| State/local govt.....                | 4,600          | 600                      | 100   | 400     | 200         | 1,300                     | 200    | 1,000      |
| Other.....                           | 6,700          | 500                      | 0     | 400     | 0           | 1,300                     | 200    | 1,100      |
| No report.....                       | 200            | 0                        | 0     | 0       | 0           | 0                         | 0      | 0          |
| Total engineering.....               | 62,700         | 22,900                   | 400   | 2,100   | 20,300      | 6,700                     | 1,500  | 5,200      |
| Business and                         |                |                          |       |         |             |                           |        |            |
| Industry.....                        | 49,200         | 19,400                   | 300   | 1,200   | 17,900      | 4,500                     | 1,100  | 3,300      |
| Industry.....                        | 48,400         | 19,200                   | 300   | 1,200   | 17,700      | 4,200                     | 1,100  | 3,100      |
| Self employed.....                   | 900            | 200                      | 0     | 0       | 200         | 300                       | 100    | 200        |
| Educ inst, total.....                | 1,800          | 900                      | 100   | 400     | 400         | 100                       | 0      | 100        |
| 4-yr college/univ.....               | 1,200          | 700                      | 0     | 300     | 300         | 100                       | 0      | 100        |
| Other.....                           | 600            | 200                      | 0     | 100     | 100         | 0                         | 0      | 0          |
| Nonprofit orgs.....                  | 400            | 100                      | 0     | 0       | 100         | 100                       | 0      | 100        |
| Federal Government.....              | 3,800          | 1,700                    | 0     | 300     | 1,400       | 500                       | 200    | 300        |
| State/local govt.....                | 2,600          | 400                      | 0     | 100     | 300         | 400                       | 0      | 400        |
| Other.....                           | 4,700          | 500                      | 0     | 200     | 200         | 1,100                     | 100    | 1,000      |
| No report.....                       | 200            | 0                        | 0     | 0       | 0           | 0                         | 0      | 0          |

See explanatory information and SOURCE at end of table.



Table B-28. 1989 science and engineering bachelor's-degree recipients, by field of degree, type of employer, and primary work activity: 1990

| Field of degree and type of employer | Primary work activity |                       |                               |        |                       |        | No report |
|--------------------------------------|-----------------------|-----------------------|-------------------------------|--------|-----------------------|--------|-----------|
|                                      | Teaching              | Production/inspection | Reporting/stat work/computing | Sales  | Professional services | Other  |           |
| Environ science.....                 | 200                   | 500                   | 300                           | 100    | S                     | 500    | S         |
| Business and                         |                       |                       |                               |        |                       |        |           |
| Industry.....                        | S                     | 500                   | 200                           | 100    | S                     | 300    | S         |
| Industry.....                        | S                     | 400                   | 200                           | 100    | S                     | 300    | S         |
| Self employed....                    | S                     | S                     | S                             | S      | S                     | S      | S         |
| Educ inst, total....                 | 100                   | 100                   | S                             | S      | S                     | S      | S         |
| 4-yr college/univ.                   | S                     | 100                   | S                             | S      | S                     | S      | S         |
| Other.....                           | 100                   | S                     | S                             | S      | S                     | S      | S         |
| Nonprofit orgs.....                  | S                     | S                     | S                             | S      | S                     | S      | S         |
| Federal Government..                 | S                     | S                     | S                             | S      | S                     | S      | S         |
| State/local govt....                 | S                     | S                     | S                             | S      | S                     | 100    | S         |
| Other.....                           | S                     | S                     | S                             | S      | S                     | S      | S         |
| Life sciences.....                   | 4,200                 | 7,400                 | 1,200                         | 2,300  | 1,200                 | 6,400  | 300       |
| Business and                         |                       |                       |                               |        |                       |        |           |
| Industry.....                        | 200                   | 5,100                 | 400                           | 1,800  | 500                   | 2,500  | 300       |
| Industry.....                        | 200                   | 4,700                 | 400                           | 1,700  | 300                   | 2,200  | 300       |
| Self employed....                    | S                     | 300                   | S                             | S      | 200                   | 300    | S         |
| Educ inst, total....                 | 2,900                 | 100                   | 300                           | S      | 100                   | 800    | S         |
| 4-yr college/univ.                   | 300                   | 100                   | 300                           | S      | S                     | 800    | S         |
| Other.....                           | 2,600                 | S                     | S                             | S      | 100                   | S      | S         |
| Nonprofit orgs.....                  | 200                   | 100                   | 200                           | S      | S                     | 600    | S         |
| Federal Government..                 | S                     | 300                   | 100                           | 100    | S                     | 200    | S         |
| State/local govt....                 | 300                   | 800                   | 200                           | S      | S                     | 600    | S         |
| Other.....                           | 600                   | 1,000                 | S                             | 400    | 700                   | 1,700  | S         |
| Psychology.....                      | 7,800                 | 1,100                 | 1,500                         | 4,700  | 1,500                 | 7,900  | 200       |
| Business and                         |                       |                       |                               |        |                       |        |           |
| Industry.....                        | 1,700                 | 800                   | 600                           | 3,900  | S                     | 2,800  | S         |
| Industry.....                        | 1,700                 | 800                   | 600                           | 3,900  | S                     | 2,600  | S         |
| Self employed....                    | S                     | S                     | S                             | S      | S                     | 200    | S         |
| Educ inst, total....                 | 2,000                 | S                     | S                             | S      | S                     | 900    | S         |
| 4-yr college/univ.                   | S                     | S                     | S                             | S      | S                     | 200    | S         |
| Other.....                           | 2,000                 | S                     | S                             | S      | S                     | 700    | S         |
| Nonprofit orgs.....                  | 3,000                 | S                     | 200                           | 200    | 400                   | 1,900  | S         |
| Federal Government..                 | S                     | 200                   | 200                           | 200    | S                     | 200    | S         |
| State/local govt....                 | 300                   | S                     | 600                           | 200    | 100                   | 800    | S         |
| Other.....                           | 800                   | 200                   | S                             | 200    | 1,000                 | 1,300  | S         |
| No report.....                       | S                     | S                     | S                             | S      | S                     | S      | 200       |
| Social sciences.....                 | 6,300                 | 4,200                 | 7,400                         | 12,900 | 900                   | 11,200 | 400       |
| Business and                         |                       |                       |                               |        |                       |        |           |
| Industry.....                        | 800                   | 3,200                 | 4,900                         | 12,100 | S                     | 4,900  | 200       |
| Industry.....                        | 600                   | 3,200                 | 4,700                         | 11,800 | S                     | 4,300  | 200       |
| Self employed....                    | 200                   | S                     | 200                           | 400    | S                     | 600    | S         |
| Educ inst, total....                 | 3,500                 | S                     | 500                           | S      | S                     | 900    | S         |
| 4-yr college/univ.                   | S                     | S                     | 500                           | S      | S                     | 500    | S         |
| Other.....                           | 3,500                 | S                     | S                             | S      | S                     | 400    | S         |
| Nonprofit orgs.....                  | 1,200                 | S                     | 200                           | S      | 200                   | 800    | S         |
| Federal Government..                 | S                     | S                     | 800                           | 400    | S                     | 800    | S         |
| State/local govt....                 | 400                   | 200                   | 600                           | S      | 200                   | 1,400  | S         |
| Other.....                           | 400                   | 700                   | 400                           | 400    | 500                   | 2,400  | S         |
| No report.....                       | S                     | S                     | S                             | S      | S                     | S      | 200       |
| Total engineering.....               | 1,200                 | 14,200                | 6,200                         | 2,300  | 100                   | 8,800  | 400       |
| Business and                         |                       |                       |                               |        |                       |        |           |
| Industry.....                        | 300                   | 11,700                | 5,100                         | 2,100  | S                     | 5,900  | 200       |
| Industry.....                        | 300                   | 11,500                | 5,100                         | 2,100  | S                     | 5,700  | 200       |
| Self employed....                    | S                     | 200                   | S                             | S      | S                     | 200    | S         |
| Educ inst, total....                 | 400                   | 100                   | 100                           | 100    | S                     | 100    | S         |
| 4-yr college/univ.                   | S                     | 100                   | 100                           | 100    | S                     | 100    | S         |
| Other.....                           | 400                   | S                     | S                             | S      | S                     | S      | S         |
| Nonprofit orgs.....                  | S                     | S                     | 100                           | S      | S                     | 100    | S         |
| Federal Government..                 | S                     | 1,000                 | 200                           | S      | S                     | 500    | S         |
| State/local govt....                 | 100                   | 900                   | 300                           | 100    | S                     | 400    | S         |
| Other.....                           | 400                   | 400                   | 300                           | S      | 100                   | 1,800  | 100       |
| No report.....                       | S                     | S                     | S                             | S      | S                     | S      | 100       |

KEY: S = Data suppressed for statistical reasons  
 NOTES: Because of rounding, components may not add to totals.  
 Data exclude those on full-time graduate students.  
 SOURCE: National Science Foundation/SRS, 1990 New Entrants Survey

Table B-29. 1989 science and engineering (S&E) bachelor's-degree recipients, by field of degree and field of employment: 1990

| Field of degree          | Total employed | Employed in non S&E occupation | Employed in S&E occupation | S&E field of employment |                   |                         |           |                  |
|--------------------------|----------------|--------------------------------|----------------------------|-------------------------|-------------------|-------------------------|-----------|------------------|
|                          |                |                                |                            | Chemistry               | Physics/astronomy | Other physical sciences | Math/stat | Computer science |
| Total, all fields.....   | 244,700        | 105,900                        | 138,800                    | 3,400                   | 200               | 1,000                   | 9,800     | 36,600           |
| Total sciences.....      | 182,000        | 97,000                         | 85,000                     | 3,200                   | 200               | 1,000                   | 8,000     | 31,500           |
| Physical sciences.....   | 7,900          | 2,600                          | 5,300                      | 2,200                   | 200               | 300                     | 200       | 700              |
| Chemistry.....           | 4,500          | 1,100                          | 3,300                      | 2,100                   | S                 | 200                     | 100       | 100              |
| Physics/astronomy.....   | 2,500          | 800                            | 1,700                      | 100                     | 200               | S                       | 100       | 600              |
| Other phys sciences..... | 900            | 600                            | 200                        | S                       | S                 | S                       | S         | S                |
| Math/statistics.....     | 13,400         | 4,900                          | 8,500                      | S                       | S                 | S                       | 5,100     | 2,300            |
| Computer science.....    | 31,000         | 4,000                          | 27,000                     | S                       | S                 | S                       | 100       | 25,400           |
| Environ science.....     | 2,200          | 400                            | 1,800                      | 100                     | S                 | S                       | S         | 100              |
| Life sciences.....       | 35,300         | 16,700                         | 18,600                     | 1,000                   | S                 | 600                     | 700       | 800              |
| Biology.....             | 23,100         | 11,300                         | 11,800                     | 900                     | S                 | 400                     | 600       | 400              |
| Agr science.....         | 12,200         | 5,400                          | 6,800                      | S                       | S                 | 200                     | 100       | 400              |
| Psychology.....          | 32,300         | 23,700                         | 8,600                      | S                       | S                 | S                       | 600       | 200              |
| Social sciences.....     | 60,000         | 44,800                         | 15,200                     | S                       | S                 | S                       | 1,300     | 2,000            |
| Economics.....           | 20,100         | 14,200                         | 5,900                      | S                       | S                 | S                       | 800       | 1,100            |
| Socio/anthro.....        | 14,000         | 11,200                         | 2,700                      | S                       | S                 | S                       | 200       | 300              |
| Other soc sciences.....  | 25,900         | 19,400                         | 6,500                      | S                       | S                 | S                       | 200       | 500              |
| Total engineering.....   | 62,700         | 8,900                          | 53,800                     | 200                     | S                 | S                       | 1,800     | 5,200            |
| Aero/astro.....          | 2,900          | 600                            | 2,300                      | S                       | S                 | S                       | 100       | 300              |
| Chemical.....            | 3,000          | 300                            | 2,700                      | 100                     | S                 | S                       | S         | S                |
| Civil.....               | 6,400          | 800                            | 5,700                      | S                       | S                 | S                       | 100       | 100              |
| Elect/electron.....      | 24,200         | 2,700                          | 21,500                     | 100                     | S                 | S                       | 700       | 3,400            |
| Industrial.....          | 4,900          | 1,000                          | 3,900                      | S                       | S                 | S                       | 300       | 400              |
| Materials.....           | 600            | 100                            | 500                        | S                       | S                 | S                       | S         | S                |
| Mechanical.....          | 13,100         | 1,900                          | 11,200                     | S                       | S                 | S                       | 400       | 200              |
| Mining.....              | 300            | S                              | 200                        | S                       | S                 | S                       | S         | S                |
| Nuclear.....             | 400            | 100                            | 300                        | S                       | S                 | S                       | S         | S                |
| Petroleum.....           | 400            | S                              | 400                        | S                       | S                 | S                       | S         | S                |
| Other engineering.....   | 6,500          | 1,400                          | 5,100                      | S                       | S                 | S                       | 200       | 700              |

| Field of degree          | S&E field of employment |         |               |            |           |                             |                       |             |
|--------------------------|-------------------------|---------|---------------|------------|-----------|-----------------------------|-----------------------|-------------|
|                          | Environ science         | Biology | Agric science | Psychology | Economics | Sociology anthro-<br>pology | Other social sciences | Engineering |
| Total, all fields.....   | 1,800                   | 10,400  | 5,900         | 4,000      | 3,500     | 3,300                       | 6,700                 | 52,300      |
| Total sciences.....      | 1,800                   | 10,300  | 5,300         | 4,000      | 3,500     | 3,200                       | 6,600                 | 6,500       |
| Physical sciences.....   | 100                     | 500     | S             | S          | S         | S                           | 100                   | 1,000       |
| Chemistry.....           | S                       | 500     | S             | S          | S         | S                           | S                     | 300         |
| Physics/astronomy.....   | S                       | S       | S             | S          | S         | S                           | S                     | 600         |
| Other phys sciences..... | S                       | S       | S             | S          | S         | S                           | S                     | 100         |
| Math/statistics.....     | S                       | 100     | 100           | S          | 100       | 100                         | 100                   | 700         |
| Computer science.....    | S                       | 100     | S             | S          | S         | S                           | S                     | 1,300       |
| Environ science.....     | 1,300                   | 100     | 100           | S          | S         | S                           | S                     | 200         |
| Life sciences.....       | 200                     | 8,600   | 4,500         | 200        | 200       | 200                         | 100                   | 1,500       |
| Biology.....             | 200                     | 8,100   | 4,000         | S          | 200       | 200                         | S                     | 200         |
| Agr science.....         | S                       | 500     | 4,000         | 200        | S         | S                           | 100                   | 1,300       |
| Psychology.....          | 200                     | 900     | 400           | 3,600      | S         | 1,000                       | 1,100                 | 600         |
| Social sciences.....     | S                       | S       | 200           | 200        | 3,200     | 1,900                       | 5,200                 | 1,300       |
| Economics.....           | S                       | S       | S             | 200        | 3,000     | S                           | 1,000                 | S           |
| Socio/anthro.....        | S                       | S       | S             | 200        | 200       | 600                         | 600                   | 600         |
| Other soc sciences.....  | S                       | S       | 200           | S          | S         | 1,300                       | 3,600                 | 600         |
| Total engineering.....   | S                       | 100     | 600           | S          | S         | 100                         | S                     | 45,900      |
| Aero/astro.....          | S                       | S       | S             | S          | S         | S                           | S                     | 1,900       |
| Chemical.....            | S                       | S       | 100           | S          | S         | S                           | S                     | 2,500       |
| Civil.....               | S                       | S       | 100           | S          | S         | S                           | S                     | 5,400       |
| Elect/electron.....      | S                       | S       | 300           | S          | S         | 100                         | S                     | 17,000      |
| Industrial.....          | S                       | S       | 100           | S          | S         | S                           | S                     | 3,200       |
| Materials.....           | S                       | S       | S             | S          | S         | S                           | S                     | 500         |
| Mechanical.....          | S                       | S       | S             | S          | S         | S                           | S                     | 10,500      |
| Mining.....              | S                       | S       | S             | S          | S         | S                           | S                     | 200         |
| Nuclear.....             | S                       | S       | S             | S          | S         | S                           | S                     | 200         |
| Petroleum.....           | S                       | S       | S             | S          | S         | S                           | S                     | 300         |
| Other engineering.....   | S                       | 100     | 100           | S          | S         | S                           | S                     | 4,100       |

KEY: S = Data suppressed for statistical reasons

NOTES: Because of rounding, components may not add to totals.  
Data exclude those on full-time graduate students.

SOURCE: National Science Foundation/SRS, 1990 New Entrants Survey

Table B-30. 1989 science and engineering (S&E) bachelor's-degree recipients employed in S&E occupations, by field of degree, type of employer, and primary work activity: 1990

| Field of degree            | Employed in S&E occupation | Primary work activity    |       |         |             |                           |        |            |
|----------------------------|----------------------------|--------------------------|-------|---------|-------------|---------------------------|--------|------------|
|                            |                            | Research and development |       |         |             | Management/administration |        |            |
|                            |                            | Total                    | Basic | Applied | Development | Total                     | Of R&D | Of non-R&D |
| Total, all fields.....     | 138,800                    | 41,200                   | 4,600 | 8,400   | 28,300      | 12,000                    | 3,600  | 8,300      |
| Business and Industry..... | 95,500                     | 30,800                   | 1,000 | 4,300   | 25,500      | 7,500                     | 2,500  | 5,100      |
| Industry.....              | 93,500                     | 30,500                   | 1,000 | 4,300   | 25,200      | 7,200                     | 2,300  | 4,900      |
| Self employed.....         | 2,000                      | 300                      | \$    | \$      | 300         | 300                       | 100    | 200        |
| Educ inst, total.....      | 12,600                     | 3,200                    | 1,600 | 1,100   | 500         | 400                       | 300    | 100        |
| 4-yr college/univ.....     | 4,600                      | 2,100                    | 1,000 | 700     | 400         | 200                       | 100    | 100        |
| Other.....                 | 8,000                      | 1,000                    | 500   | 400     | 100         | 200                       | 200    | \$         |
| Nonprofit orgs.....        | 5,800                      | 1,800                    | 600   | 100     | 100         | 400                       | \$     | 400        |
| Federal Government.....    | 7,700                      | 2,800                    | 300   | 1,200   | 1,300       | 800                       | 300    | 500        |
| State/local govt.....      | 8,400                      | 1,900                    | 600   | 700     | 600         | 1,600                     | 200    | 1,300      |
| Other.....                 | 8,800                      | 1,700                    | 500   | 1,000   | 200         | 1,300                     | 400    | 1,000      |
| No report.....             | 100                        | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Total sciences.....        | 85,000                     | 19,900                   | 4,200 | 6,400   | 9,300       | 6,800                     | 2,300  | 4,500      |
| Business and Industry..... | 52,000                     | 12,500                   | 700   | 3,200   | 8,600       | 4,100                     | 1,300  | 2,800      |
| Industry.....              | 50,600                     | 12,300                   | 700   | 3,200   | 8,500       | 3,900                     | 1,300  | 2,600      |
| Self employed.....         | 1,300                      | 100                      | \$    | \$      | 100         | 200                       | 100    | 200        |
| Educ inst, total.....      | 11,200                     | 2,400                    | 1,500 | 800     | 100         | 300                       | 300    | \$         |
| 4-yr college/univ.....     | 3,600                      | 1,500                    | 1,000 | 400     | 100         | 100                       | 100    | \$         |
| Other.....                 | 7,600                      | 900                      | 500   | 400     | \$          | 200                       | 200    | \$         |
| Nonprofit orgs.....        | 5,500                      | 700                      | 600   | 100     | \$          | 300                       | \$     | 300        |
| Federal Government.....    | 4,400                      | 1,300                    | 300   | 900     | 200         | 400                       | 200    | 200        |
| State/local govt.....      | 6,100                      | 1,500                    | 600   | 700     | 300         | 1,100                     | 200    | 900        |
| Other.....                 | 5,800                      | 1,400                    | 500   | 800     | 100         | 500                       | 200    | 300        |
| No report.....             | 100                        | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Physical sciences.....     | 5,300                      | 2,300                    | 500   | 800     | 900         | 300                       | 100    | 200        |
| Business and Industry..... | 3,700                      | 1,400                    | \$    | 500     | 800         | 200                       | 100    | 100        |
| Industry.....              | 3,700                      | 1,400                    | \$    | 500     | 800         | 200                       | 100    | 100        |
| Self employed.....         | \$                         | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Educ inst, total.....      | 600                        | 400                      | 200   | 200     | \$          | \$                        | \$     | \$         |
| 4-yr college/univ.....     | 300                        | 200                      | 200   | \$      | \$          | \$                        | \$     | \$         |
| Other.....                 | 300                        | 200                      | 200   | \$      | \$          | \$                        | \$     | \$         |
| Nonprofit orgs.....        | 100                        | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Federal Government.....    | 300                        | 100                      | \$    | 100     | \$          | \$                        | \$     | \$         |
| State/local govt.....      | 200                        | 100                      | \$    | \$      | \$          | \$                        | \$     | \$         |
| Other.....                 | 400                        | 200                      | 200   | \$      | \$          | 100                       | \$     | 100        |
| No report.....             | \$                         | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Math/statistics.....       | 8,500                      | 700                      | 100   | 200     | 400         | 200                       | 100    | 100        |
| Business and Industry..... | 4,700                      | 500                      | \$    | 100     | 400         | 100                       | 100    | 100        |
| Industry.....              | 4,700                      | 400                      | \$    | 100     | 300         | 100                       | 100    | 100        |
| Self employed.....         | 100                        | 100                      | \$    | \$      | 100         | \$                        | \$     | \$         |
| Educ inst, total.....      | 2,900                      | 100                      | 100   | \$      | \$          | \$                        | \$     | \$         |
| 4-yr college/univ.....     | 300                        | 100                      | 100   | \$      | \$          | \$                        | \$     | \$         |
| Other.....                 | 2,600                      | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Nonprofit orgs.....        | 200                        | 100                      | \$    | 100     | \$          | \$                        | \$     | \$         |
| Federal Government.....    | 100                        | 100                      | \$    | 100     | \$          | \$                        | \$     | \$         |
| State/local govt.....      | 100                        | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Other.....                 | 500                        | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| No report.....             | 100                        | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Computer science.....      | 27,000                     | 6,500                    | 200   | 300     | 6,000       | 1,300                     | 400    | 900        |
| Business and Industry..... | 23,000                     | 6,200                    | 100   | 200     | 5,800       | 1,000                     | 400    | 600        |
| Industry.....              | 22,500                     | 6,100                    | 100   | 200     | 5,800       | 900                       | 300    | 600        |
| Self employed.....         | 500                        | 100                      | \$    | \$      | 100         | 100                       | \$     | 100        |
| Educ inst, total.....      | 1,700                      | 100                      | \$    | 100     | \$          | \$                        | \$     | \$         |
| 4-yr college/univ.....     | 1,400                      | 100                      | \$    | 100     | \$          | \$                        | \$     | \$         |
| Other.....                 | 300                        | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Nonprofit orgs.....        | 200                        | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Federal Government.....    | 800                        | 200                      | \$    | \$      | 100         | \$                        | \$     | \$         |
| State/local govt.....      | 600                        | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Other.....                 | 800                        | \$                       | \$    | \$      | \$          | 100                       | \$     | 100        |

See explanatory information and SOURCE at end of table.

Table B-30. 1989 science and engineering (S&E) bachelor's-degree recipients employed in S&E occupations, by field of degree, type of employer, and primary work activity: 1990

| Field of degree         | Primary work activity |                       |                               |       |                       |        |           |
|-------------------------|-----------------------|-----------------------|-------------------------------|-------|-----------------------|--------|-----------|
|                         | Teaching              | Production/inspection | Reporting/stat work/computing | Sales | Professional services | Other  | No report |
| Total, all fields.....  | 10,800                | 23,600                | 27,900                        | 5,700 | 300                   | 17,100 | 100       |
| Business and            |                       |                       |                               |       |                       |        |           |
| Industry.....           | 900                   | 18,700                | 21,800                        | 5,300 | 100                   | 10,300 | 100       |
| Industry.....           | 50                    | 18,100                | 21,700                        | 5,100 | 100                   | 9,900  | 100       |
| Self employed.....      | 5                     | 600                   | 100                           | 200   | 5                     | 500    | 5         |
| Educ inst, total.....   | 6,700                 | 500                   | 1,600                         | 5     | 5                     | 200    | 5         |
| 4-yr college/univ.....  | 200                   | 500                   | 1,400                         | 5     | 5                     | 200    | 5         |
| Other.....              | 6,600                 | 5                     | 200                           | 5     | 5                     | 5      | 5         |
| Nonprofit orgs.....     | 2,100                 | 100                   | 600                           | 5     | 5                     | 1,700  | 5         |
| Federal Government..... | 100                   | 1,300                 | 1,500                         | 200   | 5                     | 1,000  | 5         |
| State/local govt.....   | 100                   | 1,600                 | 1,200                         | 200   | 5                     | 1,800  | 5         |
| Other.....              | 800                   | 1,400                 | 1,200                         | 5     | 200                   | 2,100  | 5         |
| No report.....          | 100                   | 5                     | 5                             | 5     | 5                     | 5      | 5         |
| Total sciences.....     | 10,100                | 10,900                | 22,300                        | 4,500 | 300                   | 10,300 | 5         |
| Business and            |                       |                       |                               |       |                       |        |           |
| Industry.....           | 700                   | 8,200                 | 17,000                        | 4,000 | 100                   | 5,400  | 5         |
| Industry.....           | 700                   | 7,800                 | 17,000                        | 3,800 | 100                   | 5,000  | 5         |
| Self employed.....      | 5                     | 400                   | 100                           | 200   | 5                     | 300    | 5         |
| Educ inst, total.....   | 6,500                 | 400                   | 1,500                         | 5     | 5                     | 100    | 5         |
| 4-yr college/univ.....  | 200                   | 400                   | 1,400                         | 5     | 5                     | 100    | 5         |
| Other.....              | 6,300                 | 5                     | 200                           | 5     | 5                     | 5      | 5         |
| Nonprofit orgs.....     | 2,100                 | 100                   | 500                           | 5     | 5                     | 1,700  | 5         |
| Federal Government..... | 100                   | 400                   | 1,300                         | 200   | 5                     | 500    | 5         |
| State/local govt.....   | 100                   | 700                   | 1,000                         | 200   | 5                     | 1,400  | 5         |
| Other.....              | 600                   | 1,000                 | 1,000                         | 5     | 200                   | 1,000  | 5         |
| No report.....          | 100                   | 5                     | 5                             | 5     | 5                     | 5      | 5         |
| Physical sciences.....  | 200                   | 1,100                 | 600                           | 200   | 5                     | 500    | 5         |
| Business and            |                       |                       |                               |       |                       |        |           |
| Industry.....           | 5                     | 900                   | 600                           | 200   | 5                     | 400    | 5         |
| Industry.....           | 5                     | 900                   | 600                           | 200   | 5                     | 400    | 5         |
| Self employed.....      | 5                     | 5                     | 5                             | 5     | 5                     | 5      | 5         |
| Educ inst, total.....   | 200                   | 5                     | 5                             | 5     | 5                     | 5      | 5         |
| 4-yr college/univ.....  | 100                   | 5                     | 5                             | 5     | 5                     | 5      | 5         |
| Other.....              | 100                   | 5                     | 5                             | 5     | 5                     | 5      | 5         |
| Nonprofit orgs.....     | 5                     | 5                     | 5                             | 5     | 5                     | 5      | 5         |
| Federal Government..... | 5                     | 5                     | 5                             | 5     | 5                     | 5      | 5         |
| State/local govt.....   | 5                     | 100                   | 5                             | 5     | 5                     | 100    | 5         |
| Other.....              | 5                     | 5                     | 5                             | 5     | 5                     | 5      | 5         |
| No report.....          | 5                     | 5                     | 5                             | 5     | 5                     | 5      | 5         |
| Math/statistics.....    | 2,900                 | 600                   | 3,100                         | 400   | 5                     | 700    | 5         |
| Business and            |                       |                       |                               |       |                       |        |           |
| Industry.....           | 100                   | 600                   | 2,600                         | 400   | 5                     | 500    | 5         |
| Industry.....           | 100                   | 600                   | 2,600                         | 400   | 5                     | 500    | 5         |
| Self employed.....      | 5                     | 5                     | 5                             | 5     | 5                     | 5      | 5         |
| Educ inst, total.....   | 2,600                 | 5                     | 100                           | 5     | 5                     | 100    | 5         |
| 4-yr college/univ.....  | 100                   | 5                     | 100                           | 5     | 5                     | 100    | 5         |
| Other.....              | 2,500                 | 5                     | 5                             | 5     | 5                     | 5      | 5         |
| Nonprofit orgs.....     | 5                     | 5                     | 5                             | 5     | 5                     | 5      | 5         |
| Federal Government..... | 5                     | 5                     | 100                           | 5     | 5                     | 5      | 5         |
| State/local govt.....   | 5                     | 5                     | 400                           | 5     | 5                     | 100    | 5         |
| Other.....              | 5                     | 5                     | 5                             | 5     | 5                     | 5      | 5         |
| No report.....          | 100                   | 5                     | 5                             | 5     | 5                     | 5      | 5         |
| Computer science.....   | 300                   | 2,100                 | 14,400                        | 200   | 100                   | 2,200  | 5         |
| Business and            |                       |                       |                               |       |                       |        |           |
| Industry.....           | 100                   | 1,600                 | 11,900                        | 200   | 5                     | 2,000  | 5         |
| Industry.....           | 100                   | 1,600                 | 11,800                        | 200   | 5                     | 1,800  | 5         |
| Self employed.....      | 5                     | 5                     | 100                           | 5     | 5                     | 300    | 5         |
| Educ inst, total.....   | 100                   | 300                   | 1,100                         | 5     | 5                     | 5      | 5         |
| 4-yr college/univ.....  | 5                     | 300                   | 900                           | 5     | 5                     | 5      | 5         |
| Other.....              | 100                   | 5                     | 200                           | 5     | 5                     | 5      | 5         |
| Nonprofit orgs.....     | 5                     | 5                     | 100                           | 5     | 5                     | 5      | 5         |
| Federal Government..... | 100                   | 100                   | 300                           | 5     | 5                     | 100    | 5         |
| State/local govt.....   | 5                     | 5                     | 400                           | 5     | 5                     | 5      | 5         |
| Other.....              | 5                     | 100                   | 500                           | 5     | 5                     | 5      | 5         |

See explanatory information and SOURCE at end of table.

Table B-30. 1989 science and engineering (S&E) bachelor's-degree recipients employed in S&E occupations, by field of degree, type of employer, and primary work activity: 1990

| Field of degree        | Employed in S&E occupation | Primary work activity    |       |         |             |                           |        |            |
|------------------------|----------------------------|--------------------------|-------|---------|-------------|---------------------------|--------|------------|
|                        |                            | Research and development |       |         |             | Management/administration |        |            |
|                        |                            | Total                    | Basic | Applied | Development | Total                     | Of R&D | Of non-R&D |
| Environ science.....   | 1,800                      | 400                      | 200   | 200     | S           | 200                       | S      | 100        |
| Business and           |                            |                          |       |         |             |                           |        |            |
| Industry.....          | 1,400                      | 300                      | 100   | 200     | S           | 100                       | S      | 100        |
| Industry.....          | 1,300                      | 300                      | 100   | 200     | S           | 100                       | S      | 100        |
| Self employed....      | S                          | S                        | S     | S       | S           | S                         | S      | S          |
| Educ inst, total....   | 200                        | S                        | S     | S       | S           | S                         | S      | S          |
| 4-yr college/univ.     | 100                        | S                        | S     | S       | S           | S                         | S      | S          |
| Other.....             | 100                        | S                        | S     | S       | S           | S                         | S      | S          |
| Nonprofit orgs.....    | S                          | S                        | S     | S       | S           | S                         | S      | S          |
| Federal Government..   | 100                        | S                        | S     | S       | S           | S                         | S      | S          |
| State/local govt....   | S                          | S                        | S     | S       | S           | S                         | S      | S          |
| Other.....             | 100                        | S                        | S     | S       | S           | S                         | S      | S          |
| Life sciences.....     | 18,600                     | 7,000                    | 2,900 | 2,600   | 1,500       | 1,600                     | 300    | 1,200      |
| Business and           |                            |                          |       |         |             |                           |        |            |
| Industry.....          | 9,500                      | 3,200                    | 300   | 1,600   | 1,300       | 1,100                     | 300    | 900        |
| Industry.....          | 9,000                      | 3,200                    | 300   | 1,600   | 1,300       | 1,000                     | 200    | 800        |
| Self employed....      | 500                        | S                        | S     | S       | S           | 100                       | S      | 100        |
| Educ inst, total....   | 3,700                      | 1,600                    | 1,200 | 400     | S           | 100                       | S      | S          |
| 4-yr college/univ.     | 1,000                      | 900                      | 700   | 100     | S           | S                         | S      | S          |
| Other.....             | 2,700                      | 700                      | 500   | 200     | S           | S                         | S      | S          |
| Nonprofit orgs.....    | 1,200                      | 500                      | 400   | S       | S           | 100                       | S      | 100        |
| Federal Government..   | 1,300                      | 600                      | 200   | 300     | S           | 100                       | S      | 100        |
| State/local govt....   | 1,700                      | 800                      | 500   | 200     | 100         | 100                       | S      | 100        |
| Other.....             | 1,200                      | 400                      | 300   | 100     | S           | 100                       | S      | 100        |
| Psychology.....        | 8,600                      | 1,100                    | 200   | 800     | 200         | 600                       | 200    | 400        |
| Business and           |                            |                          |       |         |             |                           |        |            |
| Industry.....          | 2,500                      | 400                      | S     | 200     | 200         | 200                       | S      | 200        |
| Industry.....          | 2,500                      | 400                      | S     | 200     | 200         | 200                       | S      | 200        |
| Educ inst, total....   | 400                        | S                        | S     | S       | S           | 200                       | 200    | S          |
| Other.....             | 400                        | S                        | S     | S       | S           | 200                       | 200    | S          |
| Nonprofit orgs.....    | 3,500                      | 200                      | 200   | S       | S           | 200                       | S      | 200        |
| Federal Government..   | 200                        | S                        | S     | S       | S           | S                         | S      | S          |
| State/local govt....   | 700                        | 200                      | S     | 200     | S           | S                         | S      | S          |
| Other.....             | 1,200                      | 400                      | S     | 400     | S           | S                         | S      | S          |
| Social sciences.....   | 15,200                     | 1,800                    | 200   | 1,500   | 200         | 2,800                     | 1,200  | 1,600      |
| Business and           |                            |                          |       |         |             |                           |        |            |
| Industry.....          | 7,100                      | 500                      | 200   | 300     | S           | 1,300                     | 600    | 700        |
| Industry.....          | 7,000                      | 500                      | 200   | 300     | S           | 1,300                     | 600    | 700        |
| Self employed....      | 200                        | S                        | S     | S       | S           | S                         | S      | S          |
| Educ inst, total....   | 1,800                      | 200                      | S     | 200     | S           | S                         | S      | S          |
| 4-yr college/univ.     | 500                        | 200                      | S     | 200     | S           | S                         | S      | S          |
| Other.....             | 1,300                      | S                        | S     | S       | S           | S                         | S      | S          |
| Nonprofit orgs.....    | 400                        | S                        | S     | S       | S           | S                         | S      | S          |
| Federal Government..   | 1,700                      | 400                      | S     | 400     | S           | 300                       | 200    | 100        |
| State/local govt....   | 2,700                      | 400                      | S     | 200     | 200         | 1,000                     | 200    | 800        |
| Other.....             | 1,500                      | 400                      | S     | 400     | S           | 200                       | 200    | S          |
| Total engineering..... | 53,800                     | 21,300                   | 400   | 1,900   | 19,000      | 5,200                     | 1,400  | 3,800      |
| Business and           |                            |                          |       |         |             |                           |        |            |
| Industry.....          | 43,500                     | 18,300                   | 300   | 1,200   | 16,900      | 3,400                     | 1,100  | 2,300      |
| Industry.....          | 42,900                     | 18,200                   | 300   | 1,100   | 16,700      | 3,400                     | 1,100  | 2,300      |
| Self employed....      | 600                        | 200                      | S     | S       | 200         | 100                       | 100    | S          |
| Educ inst, total....   | 1,300                      | 800                      | 100   | 300     | 400         | 100                       | S      | 100        |
| 4-yr college/univ.     | 900                        | 600                      | S     | 300     | 300         | 100                       | S      | 100        |
| Other.....             | 400                        | 100                      | S     | 100     | 100         | S                         | S      | S          |
| Nonprofit orgs.....    | 300                        | 100                      | S     | S       | 100         | 100                       | S      | 100        |
| Federal Government..   | 3,300                      | 1,500                    | S     | 300     | 1,200       | 400                       | 100    | 300        |
| State/local govt....   | 2,300                      | 400                      | S     | 100     | 300         | 400                       | S      | 400        |
| Other.....             | 3,000                      | 300                      | S     | 200     | 200         | 800                       | 100    | 700        |

See explanatory information and SOURCE at end of table.

Table B-30. 1989 science and engineering (S&E) bachelor's-degree recipients employed in S&E occupations, by field of degree, type of employer, and primary work activity: 1990

| Field of degree         | Primary work activity |                       |                               |       |                       |       |           |
|-------------------------|-----------------------|-----------------------|-------------------------------|-------|-----------------------|-------|-----------|
|                         | Teaching              | Production/inspection | Reporting/stat work/computing | Sales | Professional services | Other | No report |
| Environ science.....    | 100                   | 500                   | 200                           | S     | S                     | 400   | S         |
| Business and            |                       |                       |                               |       |                       |       |           |
| Industry.....           | S                     | 400                   | 100                           | S     | S                     | 300   | S         |
| Industry.....           | S                     | 400                   | 100                           | S     | S                     | 300   | S         |
| Self employed.....      | S                     | S                     | S                             | S     | S                     | S     | S         |
| Educ inst, total.....   | 100                   | 100                   | S                             | S     | S                     | S     | S         |
| 4-yr college/univ.....  | S                     | 100                   | S                             | S     | S                     | S     | S         |
| Other.....              | 100                   | S                     | S                             | S     | S                     | S     | S         |
| Nonprofit orgs.....     | S                     | S                     | S                             | S     | S                     | S     | S         |
| Federal Government..... | S                     | S                     | S                             | S     | S                     | S     | S         |
| State/local govt.....   | S                     | S                     | S                             | S     | S                     | S     | S         |
| Other.....              | S                     | S                     | S                             | S     | S                     | S     | S         |
| Life sciences.....      | 2,400                 | 4,800                 | 300                           | 700   | 100                   | 1,800 | S         |
| Business and            |                       |                       |                               |       |                       |       |           |
| Industry.....           | S                     | 3,500                 | 200                           | 600   | S                     | 700   | S         |
| Industry.....           | S                     | 3,200                 | 200                           | 600   | S                     | 700   | S         |
| Self employed.....      | S                     | 300                   | S                             | S     | S                     | S     | S         |
| Educ inst, total.....   | 2,000                 | S                     | S                             | S     | S                     | S     | S         |
| 4-yr college/univ.....  | S                     | S                     | S                             | S     | S                     | S     | S         |
| Other.....              | 1,900                 | S                     | S                             | S     | S                     | S     | S         |
| Nonprofit orgs.....     | 200                   | 100                   | S                             | S     | S                     | 300   | S         |
| Federal Government..... | S                     | 300                   | 100                           | 100   | S                     | 100   | S         |
| State/local govt.....   | S                     | 600                   | S                             | S     | S                     | 300   | S         |
| Other.....              | 200                   | 300                   | S                             | S     | S                     | 300   | S         |
| Psychology.....         | 2,800                 | 400                   | 800                           | 800   | 100                   | 2,100 | S         |
| Business and            |                       |                       |                               |       |                       |       |           |
| Industry.....           | 400                   | 400                   | 200                           | 600   | S                     | 400   | S         |
| Industry.....           | 400                   | 400                   | 200                           | 600   | S                     | 400   | S         |
| Educ inst, total.....   | 200                   | S                     | S                             | S     | S                     | S     | S         |
| 4-yr college/univ.....  | S                     | S                     | S                             | S     | S                     | S     | S         |
| Other.....              | 200                   | S                     | S                             | S     | S                     | S     | S         |
| Nonprofit orgs.....     | 1,900                 | S                     | 200                           | S     | S                     | 1,100 | S         |
| Federal Government..... | S                     | S                     | 200                           | S     | S                     | S     | S         |
| State/local govt.....   | S                     | S                     | 200                           | S     | S                     | 200   | S         |
| Other.....              | 400                   | S                     | S                             | S     | 100                   | 400   | S         |
| Social sciences.....    | 1,300                 | 1,500                 | 2,800                         | 2,200 | 100                   | 2,600 | S         |
| Business and            |                       |                       |                               |       |                       |       |           |
| Industry.....           | S                     | 900                   | 1,500                         | 2,000 | S                     | 1,000 | S         |
| Industry.....           | S                     | 900                   | 1,500                         | 1,900 | S                     | 1,000 | S         |
| Self employed.....      | S                     | S                     | S                             | 200   | S                     | S     | S         |
| Educ inst, total.....   | 1,300                 | S                     | 300                           | S     | S                     | S     | S         |
| 4-yr college/univ.....  | S                     | S                     | 300                           | S     | S                     | S     | S         |
| Other.....              | 1,300                 | S                     | S                             | S     | S                     | S     | S         |
| Nonprofit orgs.....     | S                     | S                     | 200                           | S     | S                     | 200   | S         |
| Federal Government..... | S                     | S                     | 600                           | S     | S                     | 200   | S         |
| State/local govt.....   | S                     | S                     | 300                           | S     | S                     | 1,000 | S         |
| Other.....              | S                     | 600                   | S                             | S     | 100                   | 200   | S         |
| Total engineering.....  | 700                   | 12,700                | 5,600                         | 1,300 | S                     | 6,900 | 100       |
| Business and            |                       |                       |                               |       |                       |       |           |
| Industry.....           | 200                   | 10,500                | 4,700                         | 1,300 | S                     | 5,000 | 100       |
| Industry.....           | 200                   | 10,200                | 4,700                         | 1,300 | S                     | 4,800 | 100       |
| Self employed.....      | S                     | 200                   | S                             | S     | S                     | 200   | S         |
| Educ inst, total.....   | 300                   | 100                   | 100                           | S     | S                     | S     | S         |
| 4-yr college/univ.....  | S                     | 100                   | 100                           | S     | S                     | S     | S         |
| Other.....              | 300                   | S                     | S                             | S     | S                     | S     | S         |
| Nonprofit orgs.....     | S                     | S                     | 100                           | S     | S                     | S     | S         |
| Federal Government..... | S                     | 800                   | 200                           | S     | S                     | 500   | S         |
| State/local govt.....   | S                     | 900                   | 300                           | S     | S                     | 300   | S         |
| Other.....              | 300                   | 400                   | 200                           | S     | S                     | 1,000 | S         |

KEY: S - Data suppressed for statistical reasons

NOTES: Because of rounding, components may not add to totals.  
Data exclude those on full-time graduate students.

SOURCE: National Science Foundation/SRS, 1990 New Entrants Survey

Table B-31. 1989 science and engineering master's-degree recipients, by field of degree, sex, and graduate school status: 1990

| Field of degree and sex | Total  | Graduate school status |                   |            |       |           |
|-------------------------|--------|------------------------|-------------------|------------|-------|-----------|
|                         |        | Full-time student      | Part-time student | Nonstudent | Other | No report |
| Total, all fields.....  | 70,400 | 16,200                 | 4,900             | 49,000     | 200   | S         |
| Men.....                | 48,300 | 11,000                 | 3,500             | 33,500     | 200   | S         |
| Women.....              | 22,100 | 5,200                  | 1,400             | 15,500     | 100   | S         |
| Total sciences.....     | 48,400 | 12,400                 | 3,200             | 32,700     | 100   | S         |
| Men.....                | 29,600 | 7,700                  | 2,000             | 19,800     | 100   | S         |
| Women.....              | 18,800 | 4,700                  | 1,200             | 12,900     | S     | S         |
| Physical sciences.....  | 4,600  | 2,000                  | 300               | 2,300      | S     | S         |
| Men.....                | 3,400  | 1,700                  | 200               | 1,400      | S     | S         |
| Women.....              | 1,200  | 400                    | S                 | 800        | S     | S         |
| Chemistry.....          | 1,600  | 700                    | S                 | 900        | S     | S         |
| Men.....                | 1,000  | 500                    | S                 | 500        | S     | S         |
| Women.....              | 600    | 200                    | S                 | 400        | S     | S         |
| Physics/astronomy.....  | 2,000  | 1,200                  | 200               | 600        | S     | S         |
| Men.....                | 1,800  | 1,000                  | 200               | 600        | S     | S         |
| Women.....              | 200    | 100                    | S                 | 100        | S     | S         |
| Other phys sciences...  | 900    | 100                    | S                 | 800        | S     | S         |
| Men.....                | 500    | 100                    | S                 | 400        | S     | S         |
| Women.....              | 400    | S                      | S                 | 400        | S     | S         |
| Math/statistics.....    | 5,100  | 1,100                  | 400               | 3,600      | S     | S         |
| Men.....                | 3,400  | 900                    | 200               | 2,300      | S     | S         |
| Women.....              | 1,700  | 200                    | 200               | 1,300      | S     | S         |
| Computer science.....   | 11,300 | 800                    | 800               | 9,600      | S     | S         |
| Men.....                | 8,200  | 600                    | 700               | 6,900      | S     | S         |
| Women.....              | 3,100  | 200                    | 200               | 2,700      | S     | S         |
| Environ science.....    | 2,500  | 500                    | 200               | 1,800      | S     | S         |
| Men.....                | 1,700  | 300                    | 100               | 1,200      | S     | S         |
| Women.....              | 800    | 200                    | S                 | 600        | S     | S         |
| Life sciences.....      | 9,700  | 3,100                  | 400               | 6,100      | S     | S         |
| Men.....                | 5,700  | 2,200                  | 100               | 3,500      | S     | S         |
| Women.....              | 3,900  | 1,000                  | 300               | 2,700      | S     | S         |
| Biology.....            | 6,100  | 2,200                  | 100               | 3,800      | S     | S         |
| Men.....                | 3,600  | 1,600                  | 100               | 1,900      | S     | S         |
| Women.....              | 2,500  | 500                    | S                 | 1,900      | S     | S         |
| Agr science.....        | 3,600  | 1,000                  | 300               | 2,300      | S     | S         |
| Men.....                | 2,100  | 500                    | S                 | 1,600      | S     | S         |
| Women.....              | 1,500  | 400                    | 300               | 800        | S     | S         |
| Psychology.....         | 4,300  | 1,800                  | 300               | 2,200      | S     | S         |
| Men.....                | 1,300  | 200                    | S                 | 1,000      | S     | S         |
| Women.....              | 3,000  | 1,500                  | 300               | 1,200      | S     | S         |
| Social sciences.....    | 10,900 | 3,000                  | 800               | 7,100      | S     | S         |
| Men.....                | 6,000  | 1,700                  | 600               | 3,600      | S     | S         |
| Women.....              | 5,000  | 1,300                  | 200               | 3,500      | S     | S         |
| Economics.....          | 2,800  | 700                    | 400               | 1,700      | S     | S         |
| Men.....                | 1,900  | 500                    | 300               | 1,000      | S     | S         |
| Women.....              | 900    | 200                    | 100               | 600        | S     | S         |
| Socio/anthro.....       | 2,000  | 600                    | 100               | 1,300      | S     | S         |
| Men.....                | 1,000  | 200                    | 100               | 800        | S     | S         |
| Women.....              | 1,000  | 400                    | S                 | 500        | S     | S         |
| Other soc sciences....  | 6,200  | 1,700                  | 400               | 4,100      | S     | S         |
| Men.....                | 3,000  | 1,000                  | 200               | 1,800      | S     | S         |
| Women.....              | 3,100  | 700                    | 100               | 2,300      | S     | S         |

See explanatory information and SOURCE at end of table.

Table B-31. 1989 science and engineering master's-degree recipients, by field of degree, sex, and graduate school status: 1990

| Field of degree and sex | Total  | Graduate school status |                   |            |       |           |
|-------------------------|--------|------------------------|-------------------|------------|-------|-----------|
|                         |        | Full-time student      | Part-time student | Nonstudent | Other | No report |
| Total engineering.....  | 22,000 | 3,800                  | 1,700             | 16,300     | 100   | \$        |
| Men.....                | 18,700 | 3,300                  | 1,500             | 13,700     | 100   | \$        |
| Women.....              | 3,300  | 500                    | 200               | 2,600      | \$    | \$        |
| Aero/astro.....         | 1,000  | 200                    | 100               | 700        | \$    | \$        |
| Men.....                | 1,000  | 200                    | 100               | 700        | \$    | \$        |
| Chemical.....           | 1,000  | 300                    | \$                | 600        | \$    | \$        |
| Men.....                | 700    | 300                    | \$                | 400        | \$    | \$        |
| Women.....              | 300    | 100                    | \$                | 200        | \$    | \$        |
| Civil.....              | 2,600  | 300                    | 100               | 2,200      | \$    | \$        |
| Men.....                | 2,200  | 200                    | 100               | 1,900      | \$    | \$        |
| Women.....              | 400    | \$                     | 100               | 300        | \$    | \$        |
| Elect/electron.....     | 7,200  | 1,400                  | 1,000             | 4,800      | 100   | \$        |
| Men.....                | 6,200  | 1,200                  | 900               | 4,000      | 100   | \$        |
| Women.....              | 1,000  | 200                    | 100               | 800        | \$    | \$        |
| Industrial.....         | 1,200  | 200                    | 100               | 1,000      | \$    | \$        |
| Men.....                | 900    | 100                    | 100               | 800        | \$    | \$        |
| Women.....              | 300    | 100                    | \$                | 200        | \$    | \$        |
| Materials.....          | 900    | 300                    | 100               | 500        | \$    | \$        |
| Men.....                | 700    | 300                    | \$                | 400        | \$    | \$        |
| Women.....              | 200    | \$                     | \$                | 100        | \$    | \$        |
| Mechanical.....         | 3,800  | 500                    | 300               | 3,000      | \$    | \$        |
| Men.....                | 3,600  | 500                    | 300               | 2,900      | \$    | \$        |
| Women.....              | 200    | 100                    | \$                | 100        | \$    | \$        |
| Mining.....             | 200    | \$                     | \$                | 200        | \$    | \$        |
| Men.....                | 200    | \$                     | \$                | 200        | \$    | \$        |
| Women.....              | \$     | \$                     | \$                | \$         | \$    | \$        |
| Nuclear.....            | 200    | 100                    | \$                | 100        | \$    | \$        |
| Men.....                | 200    | 100                    | \$                | 100        | \$    | \$        |
| Women.....              | \$     | \$                     | \$                | \$         | \$    | \$        |
| Petroleum.....          | 200    | \$                     | \$                | 100        | \$    | \$        |
| Men.....                | 200    | \$                     | \$                | 100        | \$    | \$        |
| Women.....              | \$     | \$                     | \$                | \$         | \$    | \$        |
| Other engineering.....  | 3,600  | 500                    | 100               | 3,000      | \$    | \$        |
| Men.....                | 2,800  | 400                    | 100               | 2,300      | \$    | \$        |
| Women.....              | 900    | \$                     | \$                | 800        | \$    | \$        |

KEY: \$ = Data suppressed for statistical reasons

NOTES: Because of rounding, components may not add to totals.

SOURCE: National Science Foundation/SRS, 1990 New Entrants Survey



Table B-32. 1989 science and engineering (S&E) master's-degree recipients, by field of degree, employment status, and sex: 1990

| Field of degree        | Total population |        |        | Total employed |        |        | Employed in S&E occupation |        |        |
|------------------------|------------------|--------|--------|----------------|--------|--------|----------------------------|--------|--------|
|                        | Total            | Men    | Women  | Total          | Men    | Women  | Total                      | Men    | Women  |
| Total, all fields..... | 70,400           | 48,300 | 22,100 | 62,500         | 43,100 | 19,300 | 56,100                     | 39,400 | 16,600 |
| Total sciences.....    | 48,400           | 29,600 | 18,800 | 42,900         | 26,200 | 16,600 | 36,900                     | 23,000 | 13,800 |
| Physical sciences..... | 4,600            | 3,400  | 1,200  | 3,700          | 2,600  | 1,100  | 3,500                      | 2,600  | 900    |
| Chemistry.....         | 1,600            | 1,000  | 600    | 1,300          | 800    | 500    | 1,200                      | 800    | 500    |
| Physics/astronomy..... | 2,000            | 1,800  | 200    | 1,500          | 1,400  | 200    | 1,600                      | 1,400  | 200    |
| Other phys sciences... | 900              | 500    | 400    | 800            | 400    | 400    | 800                        | 400    | 300    |
| Math/statistics.....   | 5,100            | 3,400  | 1,700  | 4,600          | 3,000  | 1,600  | 4,100                      | 2,700  | 1,400  |
| Computer science.....  | 11,300           | 8,200  | 3,100  | 10,600         | 7,800  | 2,800  | 10,000                     | 7,300  | 2,700  |
| Environ science.....   | 2,500            | 1,700  | 800    | 2,300          | 1,600  | 700    | 2,200                      | 1,500  | 700    |
| Life sciences.....     | 9,700            | 5,700  | 3,900  | 8,100          | 4,700  | 3,400  | 6,900                      | 4,100  | 2,800  |
| Biology.....           | 6,100            | 3,600  | 2,500  | 5,200          | 2,900  | 2,200  | 4,200                      | 2,400  | 1,800  |
| Agr science.....       | 3,600            | 2,100  | 1,500  | 2,900          | 1,800  | 1,200  | 2,700                      | 1,700  | 900    |
| Psychology.....        | 4,300            | 1,300  | 3,000  | 3,700          | 1,300  | 2,400  | 2,800                      | 700    | 2,100  |
| Social sciences.....   | 11,000           | 6,000  | 5,000  | 9,900          | 5,300  | 4,600  | 7,300                      | 4,100  | 3,200  |
| Economics.....         | 2,800            | 1,900  | 900    | 2,400          | 1,600  | 800    | 1,900                      | 1,500  | 400    |
| Socio/anthro.....      | 2,000            | 1,000  | 1,000  | 1,900          | 1,000  | 900    | 1,400                      | 700    | 700    |
| Other soc sciences.... | 6,200            | 3,000  | 3,100  | 5,700          | 2,800  | 2,900  | 4,000                      | 1,900  | 2,200  |
| Total engineering..... | 22,000           | 18,700 | 3,300  | 19,600         | 16,800 | 2,800  | 19,200                     | 16,400 | 2,800  |
| Aero/astro.....        | 1,000            | 1,000  | 5      | 900            | 900    | 5      | 900                        | 900    | 5      |
| Chemical.....          | 1,000            | 700    | 300    | 800            | 600    | 300    | 800                        | 600    | 300    |
| Civil.....             | 2,600            | 2,200  | 400    | 2,400          | 2,100  | 300    | 2,400                      | 2,000  | 300    |
| Elect/electron.....    | 7,200            | 6,200  | 1,000  | 6,400          | 5,600  | 800    | 6,200                      | 5,500  | 700    |
| Industrial.....        | 1,200            | 900    | 300    | 1,100          | 900    | 300    | 1,000                      | 700    | 300    |
| Materials.....         | 900              | 700    | 200    | 700            | 500    | 200    | 700                        | 600    | 200    |
| Mechanical.....        | 3,800            | 3,600  | 200    | 3,600          | 3,400  | 200    | 3,400                      | 3,200  | 200    |
| Mining.....            | 200              | 200    | 5      | 200            | 200    | 5      | 200                        | 200    | 5      |
| Nuclear.....           | 200              | 200    | 5      | 200            | 200    | 5      | 200                        | 200    | 5      |
| Petroleum.....         | 200              | 200    | 5      | 200            | 200    | 5      | 200                        | 200    | 5      |
| Other engineering..... | 3,600            | 2,800  | 900    | 3,200          | 2,400  | 800    | 3,200                      | 2,400  | 800    |

See explanatory information and SOURCE at end of table.

Table B-32. 1989 science and engineering (S&E) master's-degree recipients,  
by field of degree, employment status, and sex: 1990

| Field of degree        | Unemployed |     |       | Outside labor force |       |       |
|------------------------|------------|-----|-------|---------------------|-------|-------|
|                        | Total      | Men | Women | Total               | Men   | Women |
| Total, all fields..... | 1,300      | 800 | 600   | 6,600               | 4,400 | 2,200 |
| Total sciences.....    | 900        | 500 | 500   | 4,700               | 2,900 | 1,800 |
| Physical sciences..... | 100        | 100 | S     | 800                 | 700   | 100   |
| Chemistry.....         | S          | S   | S     | 300                 | 200   | 100   |
| Physics/astronomy..... | S          | S   | S     | 500                 | 400   | S     |
| Other phys sciences... | S          | S   | S     | 100                 | 100   | S     |
| Math/statistics.....   | 100        | 100 | S     | 400                 | 300   | 100   |
| Computer science.....  | 200        | 100 | 100   | 600                 | 300   | 300   |
| Environ science.....   | 100        | S   | S     | 200                 | 100   | 100   |
| Life sciences.....     | 200        | 100 | 100   | 1,400               | 1,000 | 400   |
| Biology.....           | 100        | S   | 100   | 900                 | 700   | 100   |
| Agr science.....       | 100        | S   | 100   | 500                 | 300   | 200   |
| Psychology.....        | 100        | S   | 100   | 500                 | S     | 500   |
| Social sciences.....   | 200        | 100 | 100   | 900                 | 500   | 300   |
| Economics.....         | S          | S   | S     | 400                 | 300   | 100   |
| Socio/anthro.....      | S          | S   | S     | 100                 | S     | 100   |
| Other soc sciences...  | 200        | S   | 100   | 400                 | 200   | 100   |
| Total engineering..... | 400        | 300 | 100   | 1,900               | 1,600 | 400   |
| Aero/astro.....        | S          | S   | S     | 100                 | 100   | S     |
| Chemical.....          | S          | S   | S     | 200                 | 100   | S     |
| Civil.....             | S          | S   | S     | 200                 | 100   | S     |
| Elect/electron.....    | 100        | S   | 100   | 700                 | 500   | 200   |
| Industrial.....        | 100        | S   | S     | S                   | S     | S     |
| Materials.....         | S          | S   | S     | 100                 | 100   | S     |
| Mechanical.....        | 100        | 100 | S     | 200                 | 200   | S     |
| Mining.....            | S          | S   | S     | S                   | S     | S     |
| Nuclear.....           | S          | S   | S     | S                   | S     | S     |
| Petroleum.....         | S          | S   | S     | S                   | S     | S     |
| Other engineering..... | 100        | 100 | S     | 300                 | 300   | S     |

KEY: S = Data suppressed for statistical reasons

NOTES: Because of rounding, components may not add to totals.

SOURCE: National Science Foundation/SRS, 1990 New Entrants Survey

Table B-33. 1989 science and engineering (S&E) master's-degree recipients, by field of degree, employment status, and racial/ethnic group: 1990

| Field of degree          | Total population |        |       |       |                 |             | Total employed |        |       |       |                 |             |
|--------------------------|------------------|--------|-------|-------|-----------------|-------------|----------------|--------|-------|-------|-----------------|-------------|
|                          | Total            | White  | Black | Asian | Native American | Hispanic 1/ | Total          | White  | Black | Asian | Native American | Hispanic 1/ |
| Total, all fields.....   | 70,400           | 52,400 | 2,700 | 9,000 | 400             | 2,400       | 62,500         | 47,300 | 2,400 | 7,100 | 400             | 2,000       |
| Total sciences.....      | 48,400           | 36,900 | 2,200 | 5,200 | 300             | 1,400       | 42,900         | 33,100 | 1,900 | 4,000 | 300             | 1,200       |
| Physical sciences.....   | 4,600            | 3,400  | 200   | 600   | S               | 100         | 3,700          | 2,800  | 100   | 400   | S               | 100         |
| Chemistry.....           | 1,600            | 1,100  | 100   | 300   | S               | 100         | 1,300          | 900    | S     | 200   | S               | 100         |
| Physics/astronomy.....   | 2,000            | 1,500  | S     | 300   | S               | 100         | 1,500          | 1,200  | S     | 200   | S               | S           |
| Other phys sciences..... | 900              | 700    | 100   | S     | S               | S           | 800            | 700    | 100   | S     | S               | S           |
| Math/statistics.....     | 5,100            | 4,000  | 100   | 600   | S               | 100         | 4,600          | 3,800  | 100   | 400   | S               | 100         |
| Computer science.....    | 11,300           | 7,800  | 400   | 2,100 | S               | 400         | 10,600         | 7,500  | 200   | 1,900 | S               | 300         |
| Environ science.....     | 2,500            | 2,200  | S     | 100   | S               | 100         | 2,300          | 2,000  | S     | 100   | S               | 100         |
| Life sciences.....       | 9,700            | 7,700  | S     | 1,000 | S               | 300         | 8,100          | 6,600  | 100   | 700   | S               | 300         |
| Biology.....             | 6,100            | 4,900  | S     | 600   | S               | 200         | 5,200          | 4,200  | S     | 400   | S               | 200         |
| Agr science.....         | 3,600            | 2,800  | 100   | 400   | S               | 100         | 2,900          | 2,400  | 100   | 300   | S               | 100         |
| Psychology.....          | 4,300            | 3,500  | 400   | 100   | S               | 100         | 3,700          | 2,900  | 300   | 100   | S               | 100         |
| Social sciences.....     | 11,000           | 8,300  | 1,000 | 600   | 200             | 200         | 9,900          | 7,600  | 1,000 | 300   | 200             | 200         |
| Economics.....           | 2,800            | 1,800  | 400   | 300   | S               | 100         | 2,400          | 1,700  | 400   | 200   | S               | S           |
| Socio/anthro.....        | 2,000            | 1,300  | 400   | S     | 200             | S           | 1,900          | 1,100  | 400   | S     | 200             | S           |
| Other soc sciences.....  | 6,200            | 5,200  | 200   | 200   | S               | 100         | 5,700          | 4,800  | 200   | 100   | S               | 100         |
| Total engineering.....   | 22,000           | 15,500 | 500   | 3,900 | 200             | 1,100       | 19,600         | 14,200 | 400   | 3,100 | 200             | 800         |
| Aero/astro.....          | 1,000            | 800    | S     | 100   | S               | 100         | 900            | 700    | S     | 100   | S               | 100         |
| Chemical.....            | 1,000            | 700    | S     | 200   | S               | 100         | 800            | 600    | S     | 100   | S               | 100         |
| Civil.....               | 2,600            | 1,600  | 200   | 500   | S               | 100         | 2,400          | 1,500  | 200   | 500   | S               | 100         |
| Elect/electron.....      | 7,200            | 4,700  | 100   | 1,600 | 100             | 400         | 6,400          | 4,200  | 100   | 1,300 | 100             | 200         |
| Industrial.....          | 1,200            | 800    | 100   | 200   | S               | 100         | 1,100          | 800    | 100   | 200   | S               | 100         |
| Materials.....           | 900              | 600    | S     | 100   | S               | S           | 700            | 600    | S     | 100   | S               | S           |
| Mechanical.....          | 3,800            | 3,000  | S     | 500   | S               | 100         | 3,600          | 2,900  | S     | 400   | S               | S           |
| Mining.....              | 200              | 200    | S     | S     | S               | S           | 200            | 200    | S     | S     | S               | S           |
| Nuclear.....             | 200              | 200    | S     | S     | S               | S           | 200            | 100    | S     | S     | S               | S           |
| Petroleum.....           | 200              | 100    | S     | S     | S               | S           | 100            | 100    | S     | S     | S               | S           |
| Other engineering.....   | 3,600            | 2,800  | 100   | 500   | S               | 200         | 3,200          | 2,500  | 100   | 300   | S               | 200         |

  

| Field of degree          | Employed in S&E occupation |        |       |       |                 |             | Unemployed |       |       |       |                 |             |
|--------------------------|----------------------------|--------|-------|-------|-----------------|-------------|------------|-------|-------|-------|-----------------|-------------|
|                          | Total                      | White  | Black | Asian | Native American | Hispanic 1/ | Total      | White | Black | Asian | Native American | Hispanic 1/ |
| Total, all fields.....   | 56,100                     | 42,600 | 1,800 | 6,700 | 400             | 1,800       | 1,300      | 700   | 100   | 400   | S               | 200         |
| Total sciences.....      | 36,900                     | 28,700 | 1,500 | 3,700 | 300             | 1,000       | 900        | 500   | 100   | 200   | S               | S           |
| Physical sciences.....   | 3,500                      | 2,700  | 200   | 400   | S               | 100         | 100        | 100   | S     | S     | S               | S           |
| Chemistry.....           | 1,200                      | 800    | 200   | 200   | S               | 100         | S          | S     | S     | S     | S               | S           |
| Physics/astronomy.....   | 1,600                      | 1,200  | S     | 200   | S               | S           | S          | S     | S     | S     | S               | S           |
| Other phys sciences..... | 800                        | 600    | 100   | S     | S               | S           | S          | S     | S     | S     | S               | S           |
| Math/statistics.....     | 4,100                      | 3,300  | 100   | 400   | S               | 100         | 100        | 100   | S     | S     | S               | S           |
| Computer science.....    | 10,000                     | 6,900  | 300   | 1,900 | S               | 400         | 200        | S     | 100   | S     | S               | S           |
| Environ science.....     | 2,200                      | 1,900  | S     | 100   | S               | 100         | 100        | 100   | S     | S     | S               | S           |
| Life sciences.....       | 6,900                      | 5,900  | 100   | 500   | S               | 200         | 200        | 100   | S     | 100   | S               | S           |
| Biology.....             | 4,200                      | 3,600  | S     | 400   | S               | 100         | 100        | 100   | S     | S     | S               | S           |
| Agr science.....         | 2,700                      | 2,300  | S     | 100   | S               | 100         | 100        | S     | S     | S     | S               | S           |
| Psychology.....          | 2,800                      | 2,400  | 100   | S     | S               | S           | 100        | S     | S     | S     | S               | S           |
| Social sciences.....     | 7,300                      | 5,600  | 700   | 400   | 200             | S           | 200        | 200   | S     | S     | S               | S           |
| Economics.....           | 1,900                      | 1,100  | 400   | 200   | S               | S           | S          | S     | S     | S     | S               | S           |
| Socio/anthro.....        | 1,400                      | 800    | 300   | S     | 200             | S           | S          | S     | S     | S     | S               | S           |
| Other soc sciences.....  | 4,000                      | 3,600  | 100   | 100   | S               | S           | 200        | 100   | S     | S     | S               | S           |
| Total engineering.....   | 19,200                     | 14,000 | 400   | 3,000 | 100             | 800         | 400        | 200   | S     | 200   | S               | 200         |
| Aero/astro.....          | 900                        | 700    | S     | 100   | S               | 100         | S          | S     | S     | S     | S               | S           |
| Chemical.....            | 800                        | 600    | S     | 100   | S               | 100         | S          | S     | S     | S     | S               | S           |
| Civil.....               | 2,400                      | 1,600  | 100   | 500   | S               | 100         | S          | S     | S     | S     | S               | S           |
| Elect/electron.....      | 6,200                      | 4,100  | 100   | 1,300 | 100             | 200         | 100        | S     | S     | 100   | S               | 100         |
| Industrial.....          | 1,000                      | 700    | 100   | 100   | S               | 100         | 100        | S     | S     | S     | S               | S           |
| Materials.....           | 700                        | 600    | S     | 100   | S               | S           | 100        | S     | S     | S     | S               | S           |
| Mechanical.....          | 3,400                      | 2,800  | S     | 300   | S               | 100         | 100        | S     | S     | S     | S               | S           |
| Mining.....              | 200                        | 200    | S     | S     | S               | S           | 200        | 200   | S     | S     | S               | S           |
| Nuclear.....             | 200                        | 200    | S     | S     | S               | S           | 200        | 100   | S     | S     | S               | S           |
| Petroleum.....           | 200                        | 100    | S     | S     | S               | S           | 100        | 100   | S     | S     | S               | S           |
| Other engineering.....   | 3,200                      | 2,600  | 100   | 300   | S               | 200         | 100        | 100   | S     | S     | S               | S           |

See explanatory information and SOURCE at end of table.

Table B-33. 1989 science and engineering (S&E) master's-degree recipients, by field of degree, employment status, and racial/ethnic group: 1990

| Field of degree         | Outside labor force |       |       |       |                 |             |
|-------------------------|---------------------|-------|-------|-------|-----------------|-------------|
|                         | Total               | White | Black | Asian | Native American | Hispanic 1/ |
| Total, all fields.....  | 6,600               | 4,400 | 200   | 1,600 | S               | 300         |
| Total sciences.....     | 4,700               | 3,300 | 200   | 1,000 | S               | 200         |
| Physical sciences.....  | 800                 | 600   | S     | 200   | S               | S           |
| Chemistry.....          | 300                 | 200   | S     | S     | S               | S           |
| Physics/astronomy.....  | 500                 | 300   | S     | 200   | S               | S           |
| Other phys sciences.... | 100                 | 100   | S     | S     | S               | S           |
| Math/statistics.....    | 400                 | 200   | S     | 100   | S               | S           |
| Computer science.....   | 600                 | 300   | 100   | 100   | S               | S           |
| Environ science.....    | 200                 | 100   | S     | S     | S               | S           |
| Life sciences.....      | 1,400               | 1,100 | S     | 200   | S               | S           |
| Biology.....            | 900                 | 700   | S     | 200   | S               | S           |
| Agr science.....        | 500                 | 400   | S     | 100   | S               | S           |
| Psychology.....         | 500                 | 500   | S     | S     | S               | S           |
| Social sciences.....    | 900                 | 600   | S     | 200   | S               | 100         |
| Economics.....          | 400                 | 200   | S     | 200   | S               | S           |
| Socio/anthro.....       | 100                 | 100   | S     | S     | S               | S           |
| Other soc sciences....  | 400                 | 300   | S     | S     | S               | S           |
| Total engineering.....  | 1,900               | 1,100 | S     | 600   | S               | 100         |
| Aero/astro.....         | 100                 | 100   | S     | S     | S               | S           |
| Chemical.....           | 200                 | 100   | S     | 100   | S               | S           |
| Civil.....              | 200                 | 100   | S     | S     | S               | S           |
| Elect/electron.....     | 700                 | 500   | S     | 200   | S               | 100         |
| Industrial.....         | S                   | S     | S     | S     | S               | S           |
| Materials.....          | 100                 | 100   | S     | 100   | S               | S           |
| Mechanical.....         | 200                 | 100   | S     | 100   | S               | S           |
| Mining.....             | S                   | S     | S     | S     | S               | S           |
| Nuclear.....            | S                   | S     | S     | S     | S               | S           |
| Petroleum.....          | S                   | S     | S     | S     | S               | S           |
| Other engineering.....  | 300                 | 200   | S     | 100   | S               | S           |

1/ Includes members of all racial groups

KEY: S = Data suppressed for statistical reasons

NOTES: Components will not add to totals because (a) racial and ethnic categories are not mutually exclusive, (b) total includes "other" and "no report," and (c) both components and totals have been rounded.

SOURCE: National Science Foundation/SRS, 1990 New Entrants Survey

Table 8-34. 1989 science and engineering (S&E) master's-degree recipients, by field of degree, employment status, and sex: 1990

| Field of degree        | Total population |        |        | Total employed |        |        | Employed in S&E occupation |        |        |
|------------------------|------------------|--------|--------|----------------|--------|--------|----------------------------|--------|--------|
|                        | Total            | Men    | Women  | Total          | Men    | Women  | Total                      | Men    | Women  |
| Total, all fields..... | 54,300           | 37,300 | 16,900 | 51,800         | 36,100 | 15,600 | 42,900                     | 31,000 | 11,800 |
| Total sciences.....    | 36,000           | 21,900 | 14,100 | 34,400         | 21,200 | 13,200 | 26,800                     | 17,200 | 9,600  |
| Physical sciences..... | 2,500            | 1,700  | 900    | 2,400          | 1,600  | 800    | 2,000                      | 1,400  | 600    |
| Chemistry.....         | 900              | 500    | 400    | 900            | 500    | 400    | 800                        | 500    | 300    |
| Physics/astronomy..... | 900              | 800    | 100    | 800            | 700    | 100    | 600                        | 600    | S      |
| Other phys sciences... | 800              | 400    | 400    | 800            | 400    | 400    | 600                        | 300    | 300    |
| Math/statistics.....   | 4,000            | 2,500  | 1,500  | 3,800          | 2,400  | 1,400  | 3,700                      | 2,000  | 1,200  |
| Computer science.....  | 10,500           | 7,500  | 2,900  | 10,100         | 7,400  | 2,700  | 9,300                      | 6,800  | 2,500  |
| Environ science.....   | 2,000            | 1,400  | 700    | 2,000          | 1,300  | 600    | 1,800                      | 1,200  | 600    |
| Life sciences.....     | 6,500            | 3,600  | 3,000  | 6,100          | 3,400  | 2,700  | 4,400                      | 2,500  | 1,900  |
| Biology.....           | 3,900            | 2,000  | 1,900  | 3,800          | 2,000  | 1,800  | 2,600                      | 1,200  | 1,400  |
| Agr science.....       | 2,600            | 1,600  | 1,000  | 2,300          | 1,400  | 900    | 1,800                      | 1,300  | 500    |
| Psychology.....        | 2,500            | 1,000  | 1,500  | 2,400          | 1,000  | 1,400  | 1,300                      | 500    | 800    |
| Social sciences.....   | 7,900            | 4,200  | 3,700  | 7,500          | 4,000  | 3,500  | 4,800                      | 2,700  | 2,000  |
| Economics.....         | 2,100            | 1,400  | 700    | 1,900          | 1,300  | 600    | 1,200                      | 1,000  | 200    |
| Socio/anthro.....      | 1,400            | 800    | 500    | 1,400          | 800    | 500    | 1,000                      | 600    | 300    |
| Other soc sciences.... | 4,500            | 2,000  | 2,400  | 4,200          | 1,900  | 2,300  | 2,600                      | 1,100  | 1,500  |
| Total engineering..... | 18,200           | 15,400 | 2,800  | 17,400         | 14,900 | 2,400  | 16,100                     | 13,800 | 2,300  |
| Aero/astro.....        | 800              | 800    | S      | 800            | 800    | S      | 700                        | 700    | S      |
| Chemical.....          | 700              | 500    | 200    | 600            | 400    | 200    | 600                        | 400    | 200    |
| Civil.....             | 2,300            | 2,000  | 300    | 2,300          | 2,000  | 300    | 2,200                      | 1,900  | 300    |
| Elect/electron.....    | 5,800            | 5,000  | 900    | 5,400          | 4,800  | 600    | 5,100                      | 4,500  | 500    |
| Industrial.....        | 1,100            | 800    | 200    | 1,000          | 800    | 200    | 800                        | 600    | 200    |
| Materials.....         | 600              | 400    | 200    | 500            | 400    | 100    | 500                        | 400    | 100    |
| Mechanical.....        | 3,300            | 3,100  | 100    | 3,300          | 3,100  | 100    | 3,100                      | 2,900  | 100    |
| Mining.....            | 200              | 200    | S      | 200            | 200    | S      | 200                        | 200    | S      |
| Nuclear.....           | 100              | 100    | S      | 100            | 100    | S      | 100                        | 100    | S      |
| Petroleum.....         | 100              | 100    | S      | 100            | 100    | S      | 100                        | 100    | S      |
| Other engineering..... | 3,200            | 2,400  | 800    | 3,000          | 2,200  | 800    | 2,800                      | 2,000  | 700    |

See explanatory information and SOURCE at end of table.

Table B-34. 1989 science and engineering (S&E) master's-degree recipients, by field of degree, employment status, and sex: 1990

| Field of degree        | Unemployed |     |       | Outside labor force |     |       |
|------------------------|------------|-----|-------|---------------------|-----|-------|
|                        | Total      | Men | Women | Total               | Men | Women |
| Total, all fields..... | 1,000      | 600 | 500   | 1,400               | 600 | 900   |
| Total sciences.....    | 700        | 400 | 300   | 900                 | 300 | 600   |
| Physical sciences..... | 100        | 100 | S     | S                   | S   | S     |
| Chemistry.....         | S          | S   | S     | S                   | S   | S     |
| Physics/astronomy..... | S          | S   | S     | S                   | S   | S     |
| Other phys sciences... | S          | S   | S     | S                   | S   | S     |
| Math/statistics.....   | 100        | 100 | S     | 100                 | S   | 100   |
| Computer science.....  | 100        | 100 | 100   | 200                 | 100 | 100   |
| Environ science.....   | 100        | S   | S     | S                   | S   | S     |
| Life sciences.....     | 100        | 100 | 100   | 300                 | 100 | 100   |
| Biology.....           | 100        | S   | 100   | S                   | S   | S     |
| Agr science.....       | S          | S   | S     | 300                 | 100 | 100   |
| Psychology.....        | S          | S   | S     | 100                 | S   | 100   |
| Social sciences.....   | 200        | 100 | 100   | 200                 | 100 | 100   |
| Economics.....         | S          | S   | S     | 100                 | S   | 100   |
| Socio/anthro.....      | S          | S   | S     | S                   | S   | S     |
| Other soc sciences...  | 200        | S   | 100   | 100                 | S   | S     |
| Total engineering..... | 300        | 200 | 100   | 500                 | 300 | 300   |
| Aero/astro.....        | S          | S   | S     | S                   | S   | S     |
| Chemical.....          | S          | S   | S     | S                   | S   | S     |
| Civil.....             | S          | S   | S     | S                   | S   | S     |
| Elect/electron.....    | 100        | S   | 100   | 100                 | 200 | 200   |
| Industrial.....        | 100        | S   | S     | S                   | S   | S     |
| Materials.....         | S          | S   | S     | S                   | S   | S     |
| Mechanical.....        | S          | S   | S     | S                   | S   | S     |
| Mining.....            | S          | S   | S     | S                   | S   | S     |
| Nuclear.....           | S          | S   | S     | S                   | S   | S     |
| Petroleum.....         | S          | S   | S     | S                   | S   | S     |
| Other engineering....  | 100        | 100 | S     | 100                 | 100 | S     |

KEY: S = Data suppressed for statistical reasons

NOTES: Because of rounding, components may not add to totals.  
Data exclude those on full-time graduate students.

SOURCE: National Science Foundation/SRS, 1990 New Entrants Survey

Table B-35. 1989 science and engineering (S&E) master's-degree recipients, by field of degree, employment status, and racial/ethnic group: 1990

| Field of degree        | Total population |        |       |       |                 |             |
|------------------------|------------------|--------|-------|-------|-----------------|-------------|
|                        | Total            | White  | Black | Asian | Native American | Hispanic 1/ |
| Total, all fields..... | 54,300           | 41,200 | 2,400 | 5,400 | 400             | 2,000       |
| Total sciences.....    | 36,000           | 27,800 | 2,000 | 3,000 | 200             | 1,100       |
| Physical sciences..... | 2,500            | 2,000  | 100   | 200   | S               | 100         |
| Chemistry.....         | 900              | 700    | S     | 100   | S               | S           |
| Physics/astronomy..... | 900              | 700    | S     | 100   | S               | S           |
| Other phys sciences... | 800              | 600    | 100   | S     | S               | S           |
| Math/statistics.....   | 4,000            | 3,300  | 100   | 300   | S               | 100         |
| Computer science.....  | 10,500           | 7,400  | 400   | 1,700 | S               | 400         |
| Environ science.....   | 2,000            | 1,800  | S     | 100   | S               | 100         |
| Life sciences.....     | 6,500            | 5,500  | 100   | 400   | S               | 300         |
| Biology.....           | 3,900            | 3,300  | S     | 300   | S               | 200         |
| Agr science.....       | 2,600            | 2,200  | 100   | 100   | S               | 100         |
| Psychology.....        | 2,500            | 1,900  | 300   | 100   | S               | 100         |
| Social sciences.....   | 7,900            | 5,900  | 1,000 | 200   | 200             | 100         |
| Economics.....         | 2,100            | 1,500  | 400   | 100   | S               | S           |
| Socio/anthro.....      | 1,400            | 800    | 400   | S     | 200             | S           |
| Other soc sciences.... | 4,500            | 3,700  | 200   | 100   | S               | 100         |
| Total engineering..... | 18,200           | 13,500 | 400   | 2,400 | 200             | 900         |
| Aero/astro.....        | 800              | 600    | S     | 100   | S               | 100         |
| Chemical.....          | 700              | 500    | S     | 100   | S               | 100         |
| Civil.....             | 2,300            | 1,400  | 200   | 500   | S               | 100         |
| Elect/electron.....    | 5,800            | 3,900  | 100   | 1,000 | 100             | 300         |
| Industrial.....        | 1,100            | 800    | 100   | 100   | S               | 100         |
| Materials.....         | 600              | 500    | S     | S     | S               | S           |
| Mechanical.....        | 3,300            | 2,800  | S     | 300   | S               | S           |
| Mining.....            | 200              | 200    | S     | S     | S               | S           |
| Nuclear.....           | 100              | 100    | S     | S     | S               | S           |
| Petroleum.....         | 100              | 100    | S     | S     | S               | S           |
| Other engineering..... | 3,200            | 2,600  | 100   | 300   | S               | 200         |

| Field of degree        | Total employed |        |       |       |                 |             |
|------------------------|----------------|--------|-------|-------|-----------------|-------------|
|                        | Total          | White  | Black | Asian | Native American | Hispanic 1/ |
| Total, all fields..... | 51,800         | 39,600 | 2,200 | 5,000 | 400             | 1,800       |
| Total sciences.....    | 34,400         | 26,500 | 1,800 | 2,900 | 200             | 1,000       |
| Physical sciences..... | 2,400          | 1,900  | 100   | 200   | S               | S           |
| Chemistry.....         | 900            | 700    | S     | 100   | S               | S           |
| Physics/astronomy..... | 800            | 700    | S     | 100   | S               | S           |
| Other phys sciences... | 800            | 600    | 100   | S     | S               | S           |
| Math/statistics.....   | 3,800          | 3,200  | 100   | 300   | S               | 100         |
| Computer science.....  | 10,100         | 7,200  | 200   | 1,700 | S               | 300         |
| Environ science.....   | 2,000          | 1,700  | S     | 100   | S               | 100         |
| Life sciences.....     | 6,100          | 5,100  | 100   | 400   | S               | 300         |
| Biology.....           | 3,800          | 3,200  | S     | 300   | S               | 200         |
| Agr science.....       | 2,300          | 1,900  | 100   | 100   | S               | 100         |
| Psychology.....        | 2,400          | 1,700  | 300   | 100   | S               | 100         |
| Social sciences.....   | 7,500          | 5,600  | 900   | 200   | 200             | 100         |
| Economics.....         | 1,900          | 1,400  | 400   | 100   | S               | S           |
| Socio/anthro.....      | 1,400          | 700    | 400   | S     | 200             | S           |
| Other soc sciences.... | 4,200          | 3,500  | 200   | 100   | S               | 100         |
| Total engineering..... | 17,400         | 13,100 | 400   | 2,100 | 200             | 800         |
| Aero/astro.....        | 800            | 600    | S     | 100   | S               | 100         |
| Chemical.....          | 600            | 500    | S     | 100   | S               | 100         |
| Civil.....             | 2,300          | 1,400  | 200   | 500   | S               | 100         |
| Elect/electron.....    | 5,400          | 3,800  | 100   | 800   | 100             | 200         |
| Industrial.....        | 1,000          | 700    | 100   | 100   | S               | 100         |
| Materials.....         | 500            | 500    | S     | S     | S               | S           |
| Mechanical.....        | 3,300          | 2,800  | S     | 300   | S               | S           |
| Mining.....            | 200            | 200    | S     | S     | S               | S           |
| Nuclear.....           | 100            | 100    | S     | S     | S               | S           |
| Petroleum.....         | 100            | 100    | S     | S     | S               | S           |
| Other engineering..... | 3,000          | 2,400  | 100   | 200   | S               | 200         |

See explanatory information and SOURCE at end of table.

Table B-35. 1989 science and engineering (S&E) master's-degree recipients, by field of degree, employment status, and racial/ethnic group: 1990

| Field of degree         | Employed in S&E occupation |        |       |       |                 |             |
|-------------------------|----------------------------|--------|-------|-------|-----------------|-------------|
|                         | Total                      | White  | Black | Asian | Native American | Hispanic 1/ |
| Total, all fields.....  | 42,900                     | 32,800 | 1,600 | 4,500 | 400             | 1,400       |
| Total sciences.....     | 26,800                     | 20,600 | 1,300 | 2,600 | 200             | 800         |
| Physical sciences.....  | 2,000                      | 1,600  | 100   | 100   | S               | S           |
| Chemistry.....          | 800                        | 600    | S     | 100   | S               | S           |
| Physics/astronomy.....  | 600                        | 500    | S     | 100   | S               | S           |
| Other phys sciences.... | 600                        | 500    | 100   | S     | S               | S           |
| Math/statistics.....    | 3,200                      | 2,700  | 100   | 200   | S               | 100         |
| Computer science.....   | 9,300                      | 6,500  | 200   | 1,700 | S               | 300         |
| Environ science.....    | 1,800                      | 1,600  | S     | 100   | S               | 100         |
| Life sciences.....      | 4,400                      | 3,800  | S     | 300   | S               | 200         |
| Biology.....            | 2,600                      | 2,300  | S     | 300   | S               | 100         |
| Agr science.....        | 1,800                      | 1,600  | S     | S     | S               | 100         |
| Psychology.....         | 1,300                      | 1,000  | 100   | S     | S               | S           |
| Social sciences.....    | 4,800                      | 3,400  | 700   | 100   | 200             | S           |
| Economics.....          | 1,200                      | 700    | 300   | 100   | S               | S           |
| Socio/anthro.....       | 1,000                      | 400    | 300   | S     | 200             | S           |
| Other soc sciences....  | 2,600                      | 2,200  | 100   | 100   | S               | S           |
| Total engineering.....  | 16,100                     | 12,200 | 400   | 1,900 | 100             | 700         |
| Aero/astro.....         | 700                        | 500    | S     | 100   | S               | 100         |
| Chemical.....           | 600                        | 500    | S     | 100   | S               | S           |
| Civil.....              | 2,200                      | 1,400  | 100   | 500   | 100             | 100         |
| Elect/electron.....     | 5,100                      | 3,500  | 100   | 800   | 100             | 200         |
| Industrial.....         | 800                        | 600    | 100   | 100   | S               | 100         |
| Materials.....          | 500                        | 400    | S     | S     | S               | S           |
| Mechanical.....         | 3,100                      | 2,600  | S     | 200   | S               | S           |
| Mining.....             | 200                        | 200    | S     | S     | S               | S           |
| Nuclear.....            | 100                        | 100    | S     | S     | S               | S           |
| Petroleum.....          | 100                        | 100    | S     | S     | S               | S           |
| Other engineering.....  | 2,800                      | 2,300  | S     | 200   | S               | 200         |

  

| Field of degree         | Unemployed |       |       |       |                 |             |
|-------------------------|------------|-------|-------|-------|-----------------|-------------|
|                         | Total      | White | Black | Asian | Native American | Hispanic 1/ |
| Total, all fields.....  | 1,000      | 600   | 100   | 200   | S               | 100         |
| Total sciences.....     | 700        | 500   | 100   | 100   | S               | S           |
| Physical sciences.....  | 100        | 100   | S     | S     | S               | S           |
| Chemistry.....          | S          | S     | S     | S     | S               | S           |
| Physics/astronomy.....  | S          | S     | S     | S     | S               | S           |
| Other phys sciences.... | S          | S     | S     | S     | S               | S           |
| Math/statistics.....    | 100        | 100   | S     | S     | S               | S           |
| Computer science.....   | 100        | S     | 100   | S     | S               | S           |
| Environ science.....    | 100        | 100   | S     | S     | S               | S           |
| Life sciences.....      | 100        | 100   | S     | S     | S               | S           |
| Biology.....            | 100        | 100   | S     | S     | S               | S           |
| Agr science.....        | S          | S     | S     | S     | S               | S           |
| Psychology.....         | S          | S     | S     | S     | S               | S           |
| Social sciences.....    | 200        | 200   | S     | S     | S               | S           |
| Economics.....          | S          | S     | S     | S     | S               | S           |
| Socio/anthro.....       | S          | S     | S     | S     | S               | S           |
| Other soc sciences....  | 200        | 100   | S     | S     | S               | S           |
| Total engineering.....  | 300        | 200   | S     | 100   | S               | 100         |
| Aero/astro.....         | S          | S     | S     | S     | S               | S           |
| Chemical.....           | S          | S     | S     | S     | S               | S           |
| Civil.....              | S          | S     | S     | S     | S               | S           |
| Elect/electron.....     | 100        | S     | S     | 100   | S               | 100         |
| Industrial.....         | 100        | S     | S     | S     | S               | S           |
| Materials.....          | S          | S     | S     | S     | S               | S           |
| Mechanical.....         | S          | S     | S     | S     | S               | S           |
| Mining.....             | S          | S     | S     | S     | S               | S           |
| Nuclear.....            | S          | S     | S     | S     | S               | S           |
| Petroleum.....          | S          | S     | S     | S     | S               | S           |
| Other engineering.....  | 100        | 100   | S     | S     | S               | S           |

See explanatory information and SOURCE at end of table.



Table B-35. 1989 science and engineering (S&E) master's-degree recipients, by field of degree, employment status, and racial/ethnic group: 1990

| Field of degree        | Outside labor force |       |       |       |                 |                |
|------------------------|---------------------|-------|-------|-------|-----------------|----------------|
|                        | Total               | White | Black | Asian | Native American | Hispanic<br>1/ |
| Total, all fields..... | 1,400               | 1,000 | 100   | 200   | S               | S              |
| Total sciences.....    | 900                 | 700   | 100   | 100   | S               | S              |
| Physical sciences..... | S                   | S     | S     | S     | S               | S              |
| Chemistry.....         | S                   | S     | S     | S     | S               | S              |
| Physics/astronomy..... | S                   | S     | S     | S     | S               | S              |
| Other phys sciences... | S                   | S     | S     | S     | S               | S              |
| Math/statistics.....   | 100                 | 100   | S     | S     | S               | S              |
| Computer science.....  | 200                 | 100   | S     | S     | S               | S              |
| Environ science.....   | S                   | S     | S     | S     | S               | S              |
| Life sciences.....     | 300                 | 200   | S     | S     | S               | S              |
| Biology.....           | S                   | S     | S     | S     | S               | S              |
| Agr science.....       | 300                 | 200   | S     | S     | S               | S              |
| Psychology.....        | 100                 | 100   | S     | S     | S               | S              |
| Social sciences.....   | 200                 | 200   | S     | S     | S               | S              |
| Economics.....         | 100                 | 100   | S     | S     | S               | S              |
| Socio/anthro.....      | S                   | S     | S     | S     | S               | S              |
| Other soc sciences.... | 100                 | 100   | S     | S     | S               | S              |
| Total engineering..... | 500                 | 300   | S     | 200   | S               | S              |
| Aero/astro.....        | S                   | S     | S     | S     | S               | S              |
| Chemical.....          | S                   | S     | S     | S     | S               | S              |
| Civil.....             | S                   | S     | S     | S     | S               | S              |
| Elect/electron.....    | 300                 | 200   | S     | 200   | S               | S              |
| Industrial.....        | S                   | S     | S     | S     | S               | S              |
| Materials.....         | S                   | S     | S     | S     | S               | S              |
| Mechanical.....        | S                   | S     | S     | S     | S               | S              |
| Mining.....            | S                   | S     | S     | S     | S               | S              |
| Nuclear.....           | S                   | S     | S     | S     | S               | S              |
| Petroleum.....         | S                   | S     | S     | S     | S               | S              |
| Other engineering..... | 100                 | 100   | S     | S     | S               | S              |

1/ Includes members of all racial groups

KEY: S = Data suppressed for statistical reasons

NOTES: Components will not add to totals because (a) racial and ethnic categories are not mutually exclusive, (b) total includes "other" and "no report," and (c) both components and totals have been rounded.  
Data exclude those on full-time graduate students.

SOURCE: National Science Foundation/SRS, 1990 New Entrants Survey

Table B-36. 1989 science and engineering master's-degree recipients, by field of degree, sex, and type of employer: 1990

| Field of degree and sex  | Total employed | Type of employer      |          |               |                          |                   |       |                 |                    |                         |       |           |
|--------------------------|----------------|-----------------------|----------|---------------|--------------------------|-------------------|-------|-----------------|--------------------|-------------------------|-------|-----------|
|                          |                | Business and industry |          |               | Educational institutions |                   |       | Non-profit orgs | Federal Government | State/local governments | Other | No report |
|                          |                | Total                 | Industry | Self-employed | Total                    | 4-yr college univ | Other |                 |                    |                         |       |           |
| Total, all fields.....   | 51,700         | 30,700                | 29,100   | 1,500         | 9,300                    | 4,600             | 4,600 | 1,000           | 3,600              | 2,900                   | 4,200 | S         |
| Men.....                 | 36,100         | 23,100                | 22,400   | 700           | 5,200                    | 3,000             | 2,200 | 600             | 2,700              | 1,600                   | 2,900 | S         |
| Women.....               | 15,600         | 7,600                 | 6,700    | 900           | 4,100                    | 1,600             | 2,400 | 400             | 900                | 1,300                   | 1,400 | S         |
| Total sciences.....      | 34,400         | 17,500                | 16,100   | 1,300         | 8,700                    | 4,100             | 4,600 | 800             | 2,200              | 2,300                   | 2,900 | S         |
| Men.....                 | 21,200         | 11,700                | 11,100   | 600           | 4,700                    | 2,500             | 2,200 | 400             | 1,600              | 1,200                   | 1,600 | S         |
| Women.....               | 13,200         | 5,800                 | 5,000    | 800           | 4,000                    | 1,600             | 2,400 | 400             | 600                | 1,100                   | 1,200 | S         |
| Physical sciences.....   | 2,400          | 1,200                 | 1,200    | S             | 800                      | 300               | 400   | 100             | 100                | 100                     | 100   | S         |
| Men.....                 | 1,600          | 800                   | 800      | S             | 500                      | 300               | 200   | 100             | 100                | 100                     | 100   | S         |
| Women.....               | 800            | 400                   | 400      | S             | 300                      | S                 | 300   | S               | S                  | S                       | S     | S         |
| Chemistry.....           | 900            | 600                   | 600      | S             | 100                      | 100               | 100   | S               | S                  | S                       | S     | S         |
| Men.....                 | 500            | 400                   | 400      | S             | 100                      | 100               | 100   | S               | S                  | S                       | S     | S         |
| Women.....               | 400            | 300                   | 300      | S             | S                        | S                 | S     | S               | S                  | S                       | S     | S         |
| Physics/astronomy.....   | 800            | 200                   | 200      | S             | 300                      | 200               | S     | S               | 100                | S                       | S     | S         |
| Men.....                 | 700            | 200                   | 200      | S             | 200                      | 200               | S     | 100             | 100                | S                       | 100   | S         |
| Women.....               | 100            | S                     | S        | S             | S                        | S                 | S     | S               | S                  | S                       | S     | S         |
| Other phys sciences..... | 800            | 300                   | 300      | S             | 400                      | S                 | 300   | S               | S                  | S                       | S     | S         |
| Men.....                 | 400            | 200                   | 200      | S             | 100                      | S                 | 100   | S               | S                  | S                       | S     | S         |
| Women.....               | 400            | 100                   | 100      | S             | 300                      | S                 | 200   | S               | S                  | S                       | S     | S         |
| Math/statistics.....     | 3,800          | 1,700                 | 1,700    | S             | 1,600                    | 400               | 1,100 | 100             | 200                | S                       | 300   | S         |
| Men.....                 | 2,400          | 1,200                 | 1,100    | S             | 800                      | 400               | 400   | S               | 100                | S                       | 300   | S         |
| Women.....               | 1,400          | 600                   | 600      | S             | 800                      | 100               | 700   | S               | S                  | S                       | S     | S         |
| Computer science.....    | 10,100         | 7,800                 | 7,600    | 200           | 800                      | 500               | 300   | 100             | 400                | 200                     | 800   | S         |
| Men.....                 | 7,400          | 5,700                 | 5,500    | 200           | 600                      | 300               | 200   | S               | 300                | 200                     | 700   | S         |
| Women.....               | 2,700          | 2,200                 | 2,200    | S             | 200                      | 100               | 100   | 100             | 100                | S                       | 100   | S         |
| Environ science.....     | 2,000          | 1,200                 | 1,200    | 100           | 200                      | 200               | 100   | S               | 200                | 200                     | 200   | S         |
| Men.....                 | 1,300          | 900                   | 800      | S             | 200                      | 100               | S     | S               | 100                | 100                     | 100   | S         |
| Women.....               | 600            | 400                   | 400      | S             | 100                      | S                 | S     | S               | 100                | 100                     | 100   | S         |
| Life sciences.....       | 6,100          | 1,900                 | 1,700    | 300           | 2,300                    | 1,200             | 1,100 | 100             | 600                | 700                     | 600   | S         |
| Men.....                 | 3,400          | 1,300                 | 1,200    | 100           | 1,000                    | 500               | 500   | 100             | 300                | 500                     | 100   | S         |
| Women.....               | 2,700          | 600                   | 500      | 100           | 1,300                    | 700               | 600   | S               | 300                | 200                     | 400   | S         |
| Biology.....             | 3,800          | 1,000                 | 900      | 100           | 1,800                    | 800               | 1,000 | 100             | 200                | 400                     | 300   | S         |
| Men.....                 | 2,000          | 700                   | 600      | S             | 800                      | 400               | 500   | 100             | S                  | 300                     | S     | S         |
| Women.....               | 1,800          | 400                   | 200      | 100           | 1,000                    | 500               | 500   | S               | 200                | 100                     | 200   | S         |
| Agr science.....         | 2,300          | 900                   | 800      | 100           | 500                      | 400               | 100   | S               | 400                | 300                     | 300   | S         |
| Men.....                 | 1,400          | 700                   | 600      | 100           | 200                      | 200               | S     | S               | 300                | 200                     | 100   | S         |
| Women.....               | 900            | 300                   | 200      | S             | 300                      | 200               | 100   | S               | 100                | 100                     | 200   | S         |
| Psychology.....          | 2,400          | 900                   | 900      | S             | 700                      | 300               | 400   | S               | 100                | 100                     | 400   | S         |
| Men.....                 | 1,000          | 400                   | 400      | S             | 300                      | 100               | 200   | S               | 100                | S                       | 100   | S         |
| Women.....               | 1,400          | 500                   | 500      | S             | 400                      | 200               | 200   | 100             | S                  | 100                     | 300   | S         |
| Social sciences.....     | 7,500          | 2,700                 | 1,900    | 800           | 2,400                    | 1,200             | 1,200 | 300             | 700                | 1,000                   | 400   | S         |
| Men.....                 | 4,000          | 1,500                 | 1,300    | 200           | 1,400                    | 800               | 600   | 100             | 600                | 400                     | 200   | S         |
| Women.....               | 3,500          | 1,200                 | 600      | 600           | 1,000                    | 400               | 500   | 200             | 200                | 700                     | 300   | S         |
| Economics.....           | 1,900          | 1,100                 | 1,000    | 100           | 700                      | 500               | 200   | S               | 100                | 100                     | 100   | S         |
| Men.....                 | 1,300          | 700                   | 600      | 100           | 600                      | 400               | 100   | S               | S                  | S                       | S     | S         |
| Women.....               | 600            | 300                   | 300      | S             | 100                      | 100               | 100   | S               | 100                | 100                     | S     | S         |
| Socio/anthro.....        | 1,300          | 200                   | 100      | 100           | 500                      | 400               | 100   | 100             | 400                | 100                     | 100   | S         |
| Men.....                 | 800            | 100                   | 100      | S             | 300                      | 200               | S     | S               | 400                | 100                     | S     | S         |
| Women.....               | 500            | 100                   | S        | S             | 200                      | 200               | 100   | 100             | S                  | 100                     | 100   | S         |
| Other soc sciences.....  | 4,200          | 1,500                 | 800      | 600           | 1,200                    | 300               | 900   | 200             | 300                | 800                     | 300   | S         |
| Men.....                 | 1,900          | 700                   | 600      | 100           | 600                      | 100               | 500   | 100             | 200                | 300                     | 100   | S         |
| Women.....               | 2,300          | 800                   | 300      | 600           | 600                      | 200               | 400   | 100             | 100                | 600                     | 200   | S         |

See explanatory information and SOURCE at end of table.

Table B-36. 1989 science and engineering master's-degree recipients,  
by field of degree, sex, and type of employer: 1990

| Field of degree<br>and sex | Total<br>employed | Type of employer      |          |                   |                          |                         |       |                        |                       |                                     |       |           |
|----------------------------|-------------------|-----------------------|----------|-------------------|--------------------------|-------------------------|-------|------------------------|-----------------------|-------------------------------------|-------|-----------|
|                            |                   | Business and industry |          |                   | Educational institutions |                         |       | Non-<br>profit<br>orgs | Federal<br>Government | State/<br>local<br>govern-<br>ments | Other | No report |
|                            |                   | Total                 | Industry | Self-<br>employed | Total                    | 4-yr<br>college<br>univ | Other |                        |                       |                                     |       |           |
| Total engineering.....     | 17,300            | 13,200                | 13,000   | 200               | 600                      | 500                     | 100   | 100                    | 1,400                 | 600                                 | 1,400 | \$        |
| Men.....                   | 14,900            | 11,400                | 11,300   | 100               | 500                      | 500                     | \$    | 100                    | 1,200                 | 400                                 | 1,200 | \$        |
| Women.....                 | 2,400             | 1,800                 | 1,700    | 100               | 100                      | \$                      | \$    | \$                     | 300                   | 200                                 | 100   | \$        |
| Aero/astro.....            | 800               | 400                   | 400      | \$                | \$                       | \$                      | \$    | 100                    | 200                   | \$                                  | 100   | \$        |
| Men.....                   | 800               | 400                   | 400      | \$                | \$                       | \$                      | \$    | 100                    | 200                   | \$                                  | 100   | \$        |
| Chemical.....              | 600               | 600                   | 600      | \$                | 100                      | \$                      | \$    | \$                     | \$                    | \$                                  | \$    | \$        |
| Men.....                   | 400               | 400                   | 400      | \$                | \$                       | \$                      | \$    | \$                     | \$                    | \$                                  | \$    | \$        |
| Women.....                 | 200               | 200                   | 200      | \$                | \$                       | \$                      | \$    | \$                     | \$                    | \$                                  | \$    | \$        |
| Civil.....                 | 2,300             | 1,600                 | 1,600    | \$                | \$                       | \$                      | \$    | \$                     | 200                   | 200                                 | 200   | \$        |
| Men.....                   | 2,000             | 1,400                 | 1,400    | \$                | \$                       | \$                      | \$    | \$                     | 100                   | 200                                 | 200   | \$        |
| Women.....                 | 300               | 200                   | 200      | \$                | \$                       | \$                      | \$    | \$                     | 100                   | \$                                  | \$    | \$        |
| Elect/electron.....        | 5,400             | 4,500                 | 4,400    | 100               | 200                      | 200                     | \$    | \$                     | 300                   | 100                                 | 300   | \$        |
| Men.....                   | 4,800             | 4,000                 | 4,000    | \$                | 200                      | 200                     | \$    | \$                     | 300                   | \$                                  | 300   | \$        |
| Women.....                 | 600               | 500                   | 400      | 100               | \$                       | \$                      | \$    | \$                     | \$                    | 100                                 | \$    | \$        |
| Industrial.....            | 1,000             | 800                   | 800      | \$                | \$                       | \$                      | \$    | \$                     | 100                   | \$                                  | 100   | \$        |
| Men.....                   | 800               | 600                   | 600      | \$                | \$                       | \$                      | \$    | \$                     | 100                   | \$                                  | 100   | \$        |
| Women.....                 | 200               | 200                   | 200      | \$                | \$                       | \$                      | \$    | \$                     | \$                    | \$                                  | \$    | \$        |
| Materials.....             | 500               | 500                   | 500      | \$                | \$                       | \$                      | \$    | \$                     | \$                    | \$                                  | \$    | \$        |
| Men.....                   | 400               | 300                   | 300      | \$                | \$                       | \$                      | \$    | \$                     | \$                    | \$                                  | \$    | \$        |
| Women.....                 | 100               | 100                   | 100      | \$                | \$                       | \$                      | \$    | \$                     | \$                    | \$                                  | \$    | \$        |
| Mechanical.....            | 3,300             | 2,600                 | 2,600    | 100               | 100                      | 100                     | \$    | \$                     | 200                   | \$                                  | 200   | \$        |
| Men.....                   | 3,100             | 2,500                 | 2,500    | 100               | 100                      | 100                     | \$    | \$                     | 200                   | \$                                  | 200   | \$        |
| Women.....                 | 100               | 100                   | 100      | \$                | \$                       | \$                      | \$    | \$                     | \$                    | \$                                  | \$    | \$        |
| Mining.....                | 200               | 100                   | 100      | \$                | \$                       | \$                      | \$    | \$                     | \$                    | \$                                  | \$    | \$        |
| Men.....                   | 200               | 100                   | 100      | \$                | \$                       | \$                      | \$    | \$                     | \$                    | \$                                  | \$    | \$        |
| Women.....                 | \$                | \$                    | \$       | \$                | \$                       | \$                      | \$    | \$                     | \$                    | \$                                  | \$    | \$        |
| Nuclear.....               | 100               | 100                   | 100      | \$                | \$                       | \$                      | \$    | \$                     | \$                    | \$                                  | \$    | \$        |
| Men.....                   | 100               | 100                   | 100      | \$                | \$                       | \$                      | \$    | \$                     | \$                    | \$                                  | \$    | \$        |
| Women.....                 | \$                | \$                    | \$       | \$                | \$                       | \$                      | \$    | \$                     | \$                    | \$                                  | \$    | \$        |
| Petroleum.....             | 100               | 100                   | 100      | \$                | \$                       | \$                      | \$    | \$                     | \$                    | \$                                  | \$    | \$        |
| Men.....                   | 100               | 100                   | 100      | \$                | \$                       | \$                      | \$    | \$                     | \$                    | \$                                  | \$    | \$        |
| Women.....                 | \$                | \$                    | \$       | \$                | \$                       | \$                      | \$    | \$                     | \$                    | \$                                  | \$    | \$        |
| Other engineering.....     | 3,000             | 2,000                 | 2,000    | \$                | 100                      | \$                      | \$    | \$                     | 400                   | 200                                 | 300   | \$        |
| Men.....                   | 2,200             | 1,500                 | 1,500    | \$                | \$                       | \$                      | \$    | \$                     | 300                   | 100                                 | 300   | \$        |
| Women.....                 | 800               | 500                   | 500      | \$                | \$                       | \$                      | \$    | \$                     | 100                   | 100                                 | \$    | \$        |

KEY: \$ = Data suppressed for statistical reasons

NOTES: Because of rounding, components may not add to totals.  
Data exclude those on full-time graduate students.

SOURCE: National Science Foundation/SRS, 1990 New Entrants Survey

Table B-37. 1989 science and engineering master's-degree recipients, by field of degree, sex, and primary work activity: 1990

| Field of degree and sex | Total employed | Primary work activity    |       |         |             |                           |        |            |
|-------------------------|----------------|--------------------------|-------|---------|-------------|---------------------------|--------|------------|
|                         |                | Research and development |       |         |             | Management/administration |        |            |
|                         |                | Total                    | Basic | Applied | Development | Total                     | Of R&D | Of non-R&D |
| Total, all fields.....  | 51,700         | 17,400                   | 1,500 | 3,900   | 12,000      | 6,700                     | 2,300  | 4,400      |
| Men.....                | 36,100         | 13,900                   | 1,000 | 2,900   | 10,000      | 4,800                     | 1,800  | 3,000      |
| Women.....              | 15,600         | 3,500                    | 500   | 1,000   | 2,000       | 1,900                     | 500    | 1,400      |
| Total sciences.....     | 34,400         | 8,200                    | 1,200 | 2,600   | 4,400       | 4,700                     | 1,300  | 3,400      |
| Men.....                | 21,200         | 5,900                    | 800   | 1,800   | 3,300       | 3,200                     | 900    | 2,300      |
| Women.....              | 13,200         | 2,300                    | 400   | 800     | 1,100       | 1,500                     | 300    | 1,100      |
| Physical sciences.....  | 2,400          | 900                      | 200   | 300     | 300         | 200                       | 100    | 100        |
| Men.....                | 1,600          | 700                      | 200   | 200     | 300         | 100                       | S      | S          |
| Women.....              | 800            | 200                      | 100   | 100     | S           | 100                       | 100    | S          |
| Chemistry.....          | 900            | 400                      | 100   | 200     | 100         | 100                       | 100    | S          |
| Men.....                | 500            | 200                      | 100   | 100     | 100         | S                         | S      | S          |
| Women.....              | 400            | 200                      | 100   | 100     | S           | 100                       | 100    | S          |
| Physics/astronomy.....  | 800            | 300                      | 100   | 100     | 100         | S                         | S      | S          |
| Men.....                | 700            | 300                      | 100   | 100     | 100         | S                         | S      | S          |
| Women.....              | 100            | S                        | S     | S       | S           | S                         | S      | S          |
| Other phys sciences...  | 800            | 100                      | S     | S       | 100         | S                         | S      | S          |
| Men.....                | 400            | 100                      | S     | S       | 100         | S                         | S      | S          |
| Women.....              | 400            | S                        | S     | S       | S           | S                         | S      | S          |
| Math/statistics.....    | 3,800          | 600                      | 100   | 200     | 400         | 400                       | 100    | 300        |
| Men.....                | 2,400          | 400                      | S     | 100     | 300         | 400                       | 100    | 200        |
| Women.....              | 1,400          | 200                      | S     | 100     | 100         | 100                       | S      | 100        |
| Computer science.....   | 10,100         | 3,400                    | S     | 400     | 2,900       | 1,500                     | 800    | R&D        |
| Men.....                | 7,400          | 2,600                    | S     | 300     | 2,200       | 1,300                     | 600    | 700        |
| Women.....              | 2,700          | 800                      | S     | 100     | 800         | 300                       | 100    | 100        |
| Environ science.....    | 2,000          | 500                      | 100   | 300     | 100         | 200                       | 100    | 200        |
| Men.....                | 1,300          | 400                      | 100   | 200     | 100         | 200                       | 100    | 100        |
| Women.....              | 600            | 100                      | S     | 100     | S           | S                         | S      | S          |
| Life sciences.....      | 6,100          | 1,800                    | 500   | 900     | 400         | 700                       | 100    | 600        |
| Men.....                | 3,400          | 1,100                    | 300   | 500     | 300         | 500                       | 100    | 400        |
| Women.....              | 2,700          | 700                      | 300   | 400     | 100         | 200                       | S      | 200        |
| Biology.....            | 3,800          | 1,200                    | 400   | 600     | 200         | 300                       | 100    | 200        |
| Men.....                | 2,000          | 800                      | 300   | 400     | 100         | 200                       | 100    | 200        |
| Women.....              | 1,800          | 400                      | 200   | 200     | S           | S                         | S      | S          |
| Agr science.....        | 2,300          | 600                      | 100   | 300     | 200         | 400                       | S      | 400        |
| Men.....                | 1,400          | 300                      | S     | 100     | 100         | 300                       | S      | 200        |
| Women.....              | 900            | 300                      | 100   | 100     | 100         | 100                       | S      | 100        |
| Psychology.....         | 2,400          | 200                      | S     | S       | 100         | 500                       | S      | 500        |
| Men.....                | 1,000          | 100                      | S     | S       | 100         | 200                       | S      | 200        |
| Women.....              | 1,400          | 100                      | S     | S       | 100         | 300                       | S      | 300        |
| Social sciences.....    | 7,500          | 800                      | 200   | 500     | 100         | 1,100                     | 100    | 1,100      |
| Men.....                | 4,000          | 700                      | 200   | 400     | 100         | 600                       | S      | 600        |
| Women.....              | 3,500          | 100                      | S     | 100     | S           | 500                       | 100    | 400        |
| Economics.....          | 1,900          | 200                      | S     | 200     | S           | 400                       | S      | 400        |
| Men.....                | 1,300          | 200                      | S     | 200     | S           | 300                       | S      | 300        |
| Women.....              | 600            | S                        | S     | S       | S           | 100                       | S      | 100        |
| Socio/anthro.....       | 1,300          | 300                      | 200   | 100     | S           | 100                       | S      | 100        |
| Men.....                | 800            | 300                      | 200   | S       | S           | 100                       | S      | 100        |
| Women.....              | 500            | 100                      | S     | 100     | S           | 100                       | S      | 100        |
| Other soc sciences....  | 4,200          | 300                      | S     | 200     | 100         | 600                       | S      | 600        |
| Men.....                | 1,900          | 200                      | S     | 200     | S           | 200                       | S      | 200        |
| Women.....              | 2,300          | S                        | S     | S       | S           | 400                       | S      | 300        |

See explanatory information and SOURCE at end of table.

Table B-37. 1989 science and engineering master's-degree recipients, by field of degree, sex, and primary work activity: 1990

| Field of degree and sex | Primary work activity |                       |                               |       |                       |       |           |
|-------------------------|-----------------------|-----------------------|-------------------------------|-------|-----------------------|-------|-----------|
|                         | Teaching              | Production/inspection | Reporting/stat work/computing | Sales | Professional services | Other | No report |
| Total, all fields.....  | 6,300                 | 3,800                 | 9,000                         | 600   | 600                   | 6,100 | 200       |
| Men.....                | 3,700                 | 3,100                 | 5,700                         | 600   | 100                   | 3,700 | 100       |
| Women.....              | 2,600                 | 700                   | 3,300                         | 600   | 500                   | 2,400 | 100       |
| Total sciences.....     | 6,000                 | 1,900                 | 7,600                         | 1,200 | 600                   | 4,000 | 100       |
| Men.....                | 3,400                 | 1,400                 | 4,500                         | 700   | 100                   | 2,000 | 50        |
| Women.....              | 2,600                 | 500                   | 3,100                         | 500   | 500                   | 2,000 | 100       |
| Physical sciences.....  | 700                   | 300                   | 200                           | 5     | 5                     | 200   | 5         |
| Men.....                | 400                   | 200                   | 200                           | 5     | 5                     | 100   | 5         |
| Women.....              | 300                   | 100                   | 5                             | 5     | 5                     | 100   | 5         |
| Chemistry.....          | 200                   | 100                   | 5                             | 5     | 5                     | 5     | 5         |
| Men.....                | 100                   | 100                   | 5                             | 5     | 5                     | 5     | 5         |
| Women.....              | 5                     | 5                     | 5                             | 5     | 5                     | 5     | 5         |
| Physics/astronomy....   | 200                   | 5                     | 100                           | 5     | 5                     | 100   | 5         |
| Men.....                | 200                   | 5                     | 100                           | 5     | 5                     | 5     | 5         |
| Women.....              | 5                     | 5                     | 5                             | 5     | 5                     | 5     | 5         |
| Other phys sciences...  | 400                   | 100                   | 5                             | 5     | 5                     | 100   | 5         |
| Men.....                | 100                   | 5                     | 5                             | 5     | 5                     | 100   | 5         |
| Women.....              | 300                   | 100                   | 5                             | 5     | 5                     | 5     | 5         |
| Math/statistics.....    | 1,400                 | 200                   | 900                           | 5     | 5                     | 200   | 5         |
| Men.....                | 700                   | 200                   | 500                           | 5     | 5                     | 200   | 5         |
| Women.....              | 700                   | 5                     | 400                           | 5     | 5                     | 100   | 5         |
| Computer science.....   | 500                   | 400                   | 3,700                         | 100   | 5                     | 400   | 5         |
| Men.....                | 400                   | 300                   | 2,400                         | 100   | 5                     | 300   | 5         |
| Women.....              | 100                   | 5                     | 1,300                         | 5     | 5                     | 100   | 5         |
| Environ science.....    | 100                   | 300                   | 300                           | 5     | 5                     | 500   | 5         |
| Men.....                | 100                   | 200                   | 200                           | 5     | 5                     | 300   | 5         |
| Women.....              | 100                   | 100                   | 100                           | 5     | 5                     | 200   | 5         |
| Life sciences.....      | 1,200                 | 600                   | 500                           | 500   | 300                   | 600   | 5         |
| Men.....                | 500                   | 300                   | 200                           | 400   | 100                   | 300   | 5         |
| Women.....              | 700                   | 200                   | 300                           | 100   | 200                   | 300   | 5         |
| Biology.....            | 1,000                 | 200                   | 300                           | 400   | 200                   | 200   | 5         |
| Men.....                | 400                   | 5                     | 100                           | 400   | 5                     | 100   | 5         |
| Women.....              | 600                   | 200                   | 200                           | 100   | 200                   | 100   | 5         |
| Agr science.....        | 200                   | 400                   | 200                           | 5     | 100                   | 400   | 5         |
| Men.....                | 100                   | 300                   | 200                           | 5     | 100                   | 200   | 5         |
| Women.....              | 100                   | 100                   | 100                           | 5     | 5                     | 200   | 5         |
| Psychology.....         | 800                   | 5                     | 200                           | 5     | 300                   | 400   | 5         |
| Men.....                | 600                   | 5                     | 5                             | 5     | 5                     | 100   | 5         |
| Women.....              | 200                   | 5                     | 200                           | 5     | 300                   | 300   | 5         |
| Social sciences.....    | 1,300                 | 100                   | 1,700                         | 600   | 100                   | 1,700 | 100       |
| Men.....                | 700                   | 100                   | 900                           | 200   | 5                     | 800   | 5         |
| Women.....              | 600                   | 5                     | 800                           | 400   | 100                   | 900   | 100       |
| Economics.....          | 200                   | 5                     | 500                           | 400   | 5                     | 100   | 5         |
| Men.....                | 100                   | 5                     | 400                           | 100   | 5                     | 100   | 5         |
| Women.....              | 100                   | 5                     | 100                           | 300   | 5                     | 5     | 5         |
| Socio/anthro.....       | 200                   | 5                     | 100                           | 5     | 100                   | 500   | 5         |
| Men.....                | 5                     | 5                     | 100                           | 5     | 5                     | 400   | 5         |
| Women.....              | 200                   | 5                     | 5                             | 5     | 100                   | 100   | 5         |
| Other soc sciences....  | 900                   | 100                   | 1,100                         | 100   | 5                     | 1,100 | 100       |
| Men.....                | 500                   | 100                   | 400                           | 5     | 5                     | 300   | 5         |
| Women.....              | 300                   | 5                     | 600                           | 100   | 5                     | 800   | 100       |

See explanatory information and SOURCE at end of table.

Table B-37. 1989 science and engineering master's-degree recipients, by field of degree, sex, and primary work activity: 1990

| Field of degree and sex | Total employed | Primary work activity    |       |         |                           |       |        |            |
|-------------------------|----------------|--------------------------|-------|---------|---------------------------|-------|--------|------------|
|                         |                | Research and development |       |         | Management/administration |       |        |            |
|                         |                | Total                    | Basic | Applied | Development               | Total | Of R&D | Of non-R&D |
| Total engineering.....  | 17,300         | 9,200                    | 300   | 1,300   | 7,600                     | 2,000 | 1,000  | 1,000      |
| Men.....                | 14,900         | 8,000                    | 200   | 1,100   | 6,700                     | 1,600 | 900    | 700        |
| Women.....              | 2,400          | 1,200                    | 100   | 200     | 900                       | 400   | 100    | 300        |
| Aero/astro.....         | 800            | 500                      | S     | 200     | 300                       | S     | S      | S          |
| Men.....                | 800            | 500                      | S     | 200     | 300                       | S     | S      | S          |
| Chemical.....           | 600            | 400                      | S     | 100     | 300                       | 100   | S      | 100        |
| Men.....                | 400            | 300                      | S     | 100     | 200                       | S     | S      | S          |
| Women.....              | 200            | 100                      | S     | S       | 100                       | 100   | S      | 100        |
| Civil.....              | 2,300          | 800                      | S     | 100     | 600                       | 200   | S      | 200        |
| Men.....                | 2,000          | 700                      | S     | 100     | 500                       | 100   | S      | 100        |
| Women.....              | 300            | 100                      | S     | S       | 100                       | 100   | S      | 100        |
| Elect/electron.....     | 5,400          | 3,500                    | 200   | 300     | 3,000                     | 600   | 500    | 100        |
| Men.....                | 4,800          | 3,000                    | 100   | 200     | 2,700                     | 500   | 400    | 100        |
| Women.....              | 600            | 400                      | 100   | 100     | 200                       | 100   | 100    | S          |
| Industrial.....         | 1,000          | 200                      | S     | S       | 200                       | 200   | 100    | 200        |
| Men.....                | 800            | 200                      | S     | S       | 100                       | 200   | 100    | 100        |
| Women.....              | 200            | 100                      | S     | S       | S                         | S     | S      | S          |
| Materials.....          | 500            | 400                      | S     | 100     | 300                       | S     | S      | S          |
| Men.....                | 400            | 300                      | S     | S       | 200                       | S     | S      | S          |
| Women.....              | 100            | 100                      | S     | S       | 100                       | S     | S      | S          |
| Mechanical.....         | 3,300          | 2,100                    | S     | 100     | 2,000                     | 300   | 200    | 100        |
| Men.....                | 3,100          | 2,000                    | S     | 100     | 1,800                     | 300   | 200    | 100        |
| Women.....              | 100            | 100                      | S     | S       | 100                       | S     | S      | S          |
| Mining.....             | 200            | S                        | S     | S       | S                         | S     | S      | S          |
| Men.....                | 200            | S                        | S     | S       | S                         | S     | S      | S          |
| Women.....              | S              | S                        | S     | S       | S                         | S     | S      | S          |
| Nuclear.....            | 100            | 100                      | S     | S       | S                         | S     | S      | S          |
| Men.....                | 100            | S                        | S     | S       | S                         | S     | S      | S          |
| Women.....              | S              | S                        | S     | S       | S                         | S     | S      | S          |
| Petroleum.....          | 100            | S                        | S     | S       | S                         | S     | S      | S          |
| Men.....                | 100            | S                        | S     | S       | S                         | S     | S      | S          |
| Women.....              | S              | S                        | S     | S       | S                         | S     | S      | S          |
| Other engineering.....  | 3,000          | 1,200                    | S     | 300     | 900                       | 500   | 200    | 300        |
| Men.....                | 2,200          | 1,000                    | S     | 300     | 700                       | 400   | 200    | 200        |
| Women.....              | 800            | 300                      | S     | S       | 200                       | 100   | S      | 100        |

See explanatory information and SOURCE at end of table.

Table B-37. 1989 science and engineering master's-degree recipients, by field of degree, sex, and primary work activity: 1990

| Field of degree and sex | Primary work activity |                       |                               |       |                       |       | No report |
|-------------------------|-----------------------|-----------------------|-------------------------------|-------|-----------------------|-------|-----------|
|                         | Teaching              | Production/inspection | Reporting/stat work/computing | Sales | Professional services | Other |           |
| Total engineering.....  | 300                   | 1,900                 | 1,400                         | 400   | S                     | 2,100 | S         |
| Men.....                | 300                   | 1,800                 | 1,200                         | 300   | S                     | 1,700 | S         |
| Women.....              | S                     | 200                   | 200                           | 100   | S                     | 400   | S         |
| Aero/astro.....         | S                     | S                     | 100                           | S     | S                     | 100   | S         |
| Men.....                | S                     | S                     | 100                           | S     | S                     | 100   | S         |
| Chemical.....           | S                     | 100                   | S                             | S     | S                     | S     | S         |
| Men.....                | S                     | 100                   | S                             | S     | S                     | S     | S         |
| Women.....              | S                     | S                     | S                             | S     | S                     | S     | S         |
| Civil.....              | S                     | 200                   | 200                           | 100   | S                     | 700   | S         |
| Men.....                | S                     | 200                   | 200                           | 100   | S                     | 700   | S         |
| Women.....              | S                     | S                     | S                             | S     | S                     | 100   | S         |
| Elect/electron.....     | S                     | 600                   | 400                           | 200   | S                     | 300   | S         |
| Men.....                | S                     | 600                   | 400                           | 100   | S                     | 300   | S         |
| Women.....              | S                     | S                     | S                             | 100   | S                     | S     | S         |
| Industrial.....         | S                     | 300                   | 100                           | S     | S                     | 100   | S         |
| Men.....                | S                     | 200                   | 100                           | S     | S                     | 100   | S         |
| Women.....              | S                     | S                     | 100                           | S     | S                     | 100   | S         |
| Materials.....          | S                     | 100                   | S                             | S     | S                     | S     | S         |
| Men.....                | S                     | 100                   | S                             | S     | S                     | S     | S         |
| Women.....              | S                     | S                     | S                             | S     | S                     | S     | S         |
| Mechanical.....         | 200                   | 300                   | 200                           | S     | S                     | 100   | S         |
| Men.....                | 200                   | 300                   | 200                           | S     | S                     | 100   | S         |
| Women.....              | S                     | S                     | S                             | S     | S                     | S     | S         |
| Mining.....             | S                     | 100                   | S                             | S     | S                     | S     | S         |
| Men.....                | S                     | 100                   | S                             | S     | S                     | S     | S         |
| Women.....              | S                     | S                     | S                             | S     | S                     | S     | S         |
| Nuclear.....            | S                     | S                     | S                             | S     | S                     | S     | S         |
| Men.....                | S                     | S                     | S                             | S     | S                     | S     | S         |
| Women.....              | S                     | S                     | S                             | S     | S                     | S     | S         |
| Petroleum.....          | S                     | 100                   | S                             | S     | S                     | S     | S         |
| Men.....                | S                     | 100                   | S                             | S     | S                     | S     | S         |
| Women.....              | S                     | S                     | S                             | S     | S                     | S     | S         |
| Other engineering.....  | 100                   | 200                   | 300                           | 100   | S                     | 600   | S         |
| Men.....                | S                     | 200                   | 200                           | 100   | S                     | 400   | S         |
| Women.....              | S                     | S                     | S                             | S     | S                     | 300   | S         |

KEY: S = Data suppressed for statistical reasons

NOTES: Because of rounding, components may not add to totals.  
Data exclude those on full-time graduate students.

SOURCE: National Science Foundation/SRS, 1990 New Entrants Survey

Table B-38. 1989 science and engineering master's-degree recipients, by field of degree, type of employer, and primary work activity: 1990

| Field of degree and type of employer | Total employed | Primary work activity    |       |         |             |                           |        |            |
|--------------------------------------|----------------|--------------------------|-------|---------|-------------|---------------------------|--------|------------|
|                                      |                | Research and development |       |         |             | Management/administration |        |            |
|                                      |                | Total                    | Basic | Applied | Development | Total                     | Of R&D | Of non-R&D |
| Total, all fields.....               | 51,800         | 17,500                   | 1,500 | 3,900   | 12,000      | 6,700                     | 2,300  | 4,400      |
| Business and Industry.....           | 30,700         | 12,500                   | 400   | 1,700   | 10,400      | 3,700                     | 1,500  | 2,200      |
| Industry.....                        | 29,200         | 12,400                   | 400   | 1,700   | 10,300      | 3,500                     | 1,400  | 2,100      |
| Self employed.....                   | 1,500          | 100                      | \$    | \$      | 100         | 200                       | \$     | 200        |
| Educ inst, total.....                | 9,300          | 2,000                    | 900   | 700     | 400         | 500                       | 200    | 300        |
| 4-yr college/univ.....               | 4,600          | 1,700                    | 800   | 600     | 400         | 300                       | 200    | 200        |
| Other.....                           | 4,600          | 300                      | 100   | 100     | \$          | 200                       | \$     | 200        |
| Nonprofit orgs.....                  | 1,000          | 300                      | \$    | 200     | 100         | 100                       | 100    | 100        |
| Federal Government.....              | 3,600          | 1,500                    | 200   | 700     | 600         | 700                       | 300    | 400        |
| State/local govt.....                | 2,900          | 700                      | \$    | 400     | 200         | 500                       | \$     | 500        |
| Other.....                           | 4,200          | 500                      | \$    | 200     | 300         | 1,200                     | 300    | 900        |
| No report.....                       | \$             | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Total sciences.....                  | 34,400         | 8,200                    | 1,200 | 2,600   | 4,400       | 4,700                     | 1,300  | 3,400      |
| Business and Industry.....           | 17,500         | 5,000                    | 300   | 1,100   | 3,700       | 2,500                     | 900    | 1,600      |
| Industry.....                        | 16,100         | 4,900                    | 300   | 1,100   | 3,600       | 2,300                     | 900    | 1,400      |
| Self employed.....                   | 1,300          | 100                      | \$    | \$      | 100         | 200                       | \$     | 100        |
| Educ inst, total.....                | 8,700          | 1,700                    | 800   | 600     | 300         | 400                       | 100    | 300        |
| 4-yr college/univ.....               | 4,100          | 1,400                    | 700   | 500     | 200         | 200                       | 100    | 200        |
| Other.....                           | 4,600          | 300                      | 100   | 100     | \$          | 200                       | \$     | 200        |
| Nonprofit orgs.....                  | 900            | 200                      | \$    | 200     | 100         | 100                       | \$     | 100        |
| Federal Government.....              | 2,200          | 700                      | 100   | 400     | 200         | 300                       | 100    | 200        |
| State/local govt.....                | 2,300          | 400                      | \$    | 300     | 100         | 400                       | \$     | 400        |
| Other.....                           | 2,900          | 200                      | \$    | 100     | 100         | 1,000                     | 100    | 800        |
| No report.....                       | \$             | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Physical sciences.....               | 2,400          | 900                      | 200   | 300     | 300         | 200                       | 100    | 100        |
| Business and Industry.....           | 1,200          | 600                      | 100   | 200     | 300         | 100                       | 100    | \$         |
| Industry.....                        | 1,200          | 600                      | 100   | 200     | 300         | 100                       | 100    | \$         |
| Self employed.....                   | \$             | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Educ inst, total.....                | 800            | 100                      | 100   | \$      | \$          | \$                        | \$     | \$         |
| 4-yr college/univ.....               | 300            | 100                      | 100   | \$      | \$          | \$                        | \$     | \$         |
| Other.....                           | 400            | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Nonprofit orgs.....                  | 100            | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Federal Government.....              | 100            | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| State/local govt.....                | 100            | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Other.....                           | 100            | 100                      | \$    | \$      | \$          | \$                        | \$     | \$         |
| Math/statistics.....                 | 3,800          | 600                      | 100   | 200     | 400         | 400                       | 100    | 300        |
| Business and Industry.....           | 1,700          | 400                      | \$    | 100     | 300         | 200                       | 100    | 100        |
| Industry.....                        | 1,700          | 400                      | \$    | 100     | 300         | 200                       | 100    | 100        |
| Self employed.....                   | \$             | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Educ inst, total.....                | 1,600          | 100                      | 100   | \$      | \$          | \$                        | \$     | \$         |
| 4-yr college/univ.....               | 400            | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Other.....                           | 1,100          | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Nonprofit orgs.....                  | 100            | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Federal Government.....              | 200            | 100                      | \$    | \$      | \$          | \$                        | \$     | \$         |
| State/local govt.....                | \$             | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Other.....                           | 300            | \$                       | \$    | \$      | \$          | 200                       | \$     | 200        |
| Computer science.....                | 10,100         | 3,400                    | \$    | 400     | 2,900       | 1,500                     | 800    | 600        |
| Business and Industry.....           | 7,800          | 2,900                    | \$    | 200     | 2,700       | 1,000                     | 600    | 400        |
| Industry.....                        | 7,600          | 2,800                    | \$    | 200     | 2,600       | 1,000                     | 600    | 400        |
| Self employed.....                   | 200            | 100                      | \$    | \$      | 100         | \$                        | \$     | \$         |
| Educ inst, total.....                | 800            | 200                      | \$    | 100     | 100         | 100                       | \$     | 100        |
| 4-yr college/univ.....               | 500            | 200                      | \$    | 100     | 100         | 100                       | \$     | 100        |
| Other.....                           | 300            | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Nonprofit orgs.....                  | 100            | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Federal Government.....              | 400            | 200                      | \$    | 100     | 100         | 100                       | 100    | \$         |
| State/local govt.....                | 200            | 100                      | \$    | \$      | 100         | \$                        | \$     | \$         |
| Other.....                           | 800            | \$                       | \$    | \$      | \$          | 300                       | 100    | 300        |

See explanatory information and SOURCE at end of table.



Table B-38. 1989 science and engineering master's-degree recipients, by field of degree, type of employer, and primary work activity: 1990

| Field of degree and type of employer | Primary work activity |                       |                               |       |                       |       |           |
|--------------------------------------|-----------------------|-----------------------|-------------------------------|-------|-----------------------|-------|-----------|
|                                      | Teaching              | Production/inspection | Reporting/stat work/computing | Sales | Professional services | Other | No report |
| Total, all fields.....               | 6,300                 | 3,800                 | 9,000                         | 1,600 | 600                   | 6,100 | 200       |
| Business and                         |                       |                       |                               |       |                       |       |           |
| Industry.....                        | 700                   | 2,600                 | 5,600                         | 1,500 | 100                   | 4,000 | 100       |
| Industry.....                        | 600                   | 2,500                 | 5,500                         | 1,200 | \$                    | 3,300 | 100       |
| Self employed....                    | \$                    | 100                   | 100                           | 300   | \$                    | 700   | \$        |
| Educ inst. total....                 | 5,100                 | 100                   | 900                           | \$    | 100                   | 500   | \$        |
| 4-yr college/univ....                | 1,300                 | 100                   | 800                           | \$    | 100                   | 300   | \$        |
| Other.....                           | 3,900                 | \$                    | 200                           | \$    | \$                    | 200   | \$        |
| Nonprofit orgs.....                  | 100                   | \$                    | 400                           | \$    | \$                    | \$    | \$        |
| Federal Government...                | 100                   | 300                   | 600                           | \$    | \$                    | 500   | \$        |
| State/local govt....                 | 100                   | 100                   | 1,200                         | \$    | 100                   | 300   | \$        |
| Other.....                           | 300                   | 700                   | 400                           | \$    | 300                   | 800   | \$        |
| No report.....                       | \$                    | \$                    | \$                            | \$    | \$                    | \$    | \$        |
| Total sciences.....                  | 6,000                 | 1,900                 | 7,600                         | 1,200 | 600                   | 4,000 | 100       |
| Business and                         |                       |                       |                               |       |                       |       |           |
| Industry.....                        | 600                   | 1,300                 | 4,500                         | 1,200 | 100                   | 2,200 | \$        |
| Industry.....                        | 600                   | 1,200                 | 4,400                         | 1,000 | \$                    | 1,500 | \$        |
| Self employed....                    | \$                    | 100                   | 100                           | 200   | \$                    | 700   | \$        |
| Educ inst. total....                 | 5,000                 | 100                   | 900                           | \$    | 100                   | 500   | \$        |
| 4-yr college/univ....                | 1,200                 | 100                   | 800                           | \$    | 100                   | 300   | \$        |
| Other.....                           | 3,800                 | \$                    | 200                           | \$    | \$                    | 200   | \$        |
| Nonprofit orgs.....                  | 100                   | \$                    | 300                           | \$    | \$                    | \$    | \$        |
| Federal Government...                | 100                   | 200                   | 400                           | \$    | \$                    | 400   | \$        |
| State/local govt....                 | 100                   | 100                   | 1,100                         | \$    | 100                   | 200   | \$        |
| Other.....                           | 100                   | 200                   | 300                           | \$    | 300                   | 700   | \$        |
| No report.....                       | \$                    | \$                    | \$                            | \$    | \$                    | \$    | \$        |
| Physical sciences.....               | 700                   | 300                   | 200                           | \$    | \$                    | 200   | \$        |
| Business and                         |                       |                       |                               |       |                       |       |           |
| Industry.....                        | 100                   | 200                   | 100                           | \$    | \$                    | 200   | \$        |
| Industry.....                        | 100                   | 200                   | \$                            | \$    | \$                    | 200   | \$        |
| Self employed....                    | \$                    | \$                    | \$                            | \$    | \$                    | \$    | \$        |
| Educ inst. total....                 | 600                   | \$                    | \$                            | \$    | \$                    | \$    | \$        |
| 4-yr college/univ....                | 200                   | \$                    | \$                            | \$    | \$                    | \$    | \$        |
| Other.....                           | 400                   | \$                    | \$                            | \$    | \$                    | \$    | \$        |
| Nonprofit orgs.....                  | \$                    | \$                    | 100                           | \$    | \$                    | \$    | \$        |
| Federal Government...                | \$                    | \$                    | \$                            | \$    | \$                    | \$    | \$        |
| State/local govt....                 | \$                    | \$                    | \$                            | \$    | \$                    | \$    | \$        |
| Other.....                           | \$                    | \$                    | \$                            | \$    | \$                    | \$    | \$        |
| Math/statistics.....                 | 1,400                 | 200                   | 900                           | \$    | \$                    | 200   | \$        |
| Business and                         |                       |                       |                               |       |                       |       |           |
| Industry.....                        | \$                    | 200                   | 700                           | \$    | \$                    | 100   | \$        |
| Industry.....                        | \$                    | 200                   | 700                           | \$    | \$                    | 100   | \$        |
| Self employed....                    | \$                    | \$                    | \$                            | \$    | \$                    | \$    | \$        |
| Educ inst. total....                 | 1,400                 | \$                    | 100                           | \$    | \$                    | \$    | \$        |
| 4-yr college/univ....                | 400                   | \$                    | \$                            | \$    | \$                    | \$    | \$        |
| Other.....                           | 1,000                 | \$                    | \$                            | \$    | \$                    | \$    | \$        |
| Nonprofit orgs.....                  | \$                    | \$                    | \$                            | \$    | \$                    | \$    | \$        |
| Federal Government...                | \$                    | \$                    | \$                            | \$    | \$                    | \$    | \$        |
| State/local govt....                 | \$                    | \$                    | \$                            | \$    | \$                    | \$    | \$        |
| Other.....                           | \$                    | \$                    | \$                            | \$    | \$                    | 100   | \$        |
| Computer science.....                | 500                   | 400                   | 3,700                         | 100   | \$                    | 400   | \$        |
| Business and                         |                       |                       |                               |       |                       |       |           |
| Industry.....                        | 100                   | 300                   | 3,000                         | 100   | \$                    | 400   | \$        |
| Industry.....                        | 100                   | 300                   | 3,000                         | 100   | \$                    | 400   | \$        |
| Self employed....                    | \$                    | \$                    | \$                            | 100   | \$                    | \$    | \$        |
| Educ inst. total....                 | 300                   | \$                    | 200                           | \$    | \$                    | \$    | \$        |
| 4-yr college/univ....                | 100                   | \$                    | 100                           | \$    | \$                    | \$    | \$        |
| Other.....                           | 200                   | \$                    | \$                            | \$    | \$                    | \$    | \$        |
| Nonprofit orgs.....                  | \$                    | \$                    | 100                           | \$    | \$                    | \$    | \$        |
| Federal Government...                | \$                    | \$                    | 100                           | \$    | \$                    | \$    | \$        |
| State/local govt....                 | \$                    | \$                    | 100                           | \$    | \$                    | \$    | \$        |
| Other.....                           | 100                   | 100                   | 200                           | \$    | \$                    | \$    | \$        |

See explanatory information and SOURCE at end of table.

Table B-38. 1989 science and engineering master's-degree recipients, by field of degree, type of employer, and primary work activity: 1990

| Field of degree and type of employer | Total employed | Primary work activity    |       |         |             |                           |        |            |
|--------------------------------------|----------------|--------------------------|-------|---------|-------------|---------------------------|--------|------------|
|                                      |                | Research and development |       |         |             | Management/administration |        |            |
|                                      |                | Total                    | Basic | Applied | Development | Total                     | Of R&D | Of non-R&D |
| Environ science.....                 | 2,000          | 500                      | 100   | 300     | 100         | 200                       | 100    | 200        |
| Business and                         |                |                          |       |         |             |                           |        |            |
| Industry.....                        | 1,200          | 300                      | S     | 200     | 100         | 100                       | S      | 100        |
| Industry.....                        | 1,200          | 300                      | S     | 200     | 100         | 100                       | S      | 100        |
| Self employed.....                   | 100            | S                        | S     | S       | S           | S                         | S      | S          |
| Educ inst, total.....                | 200            | 100                      | 100   | S       | S           | S                         | S      | S          |
| 4-yr college/univ.....               | 200            | 100                      | 100   | S       | S           | S                         | S      | S          |
| Other.....                           | 100            | S                        | S     | S       | S           | S                         | S      | S          |
| Nonprofit orgs.....                  | S              | S                        | S     | S       | S           | S                         | S      | S          |
| Federal Government.....              | 200            | 100                      | S     | 100     | S           | S                         | S      | S          |
| State/local govt.....                | 200            | S                        | S     | S       | S           | S                         | S      | S          |
| Other.....                           | 200            | S                        | S     | S       | S           | S                         | S      | S          |
| No report.....                       | S              | S                        | S     | S       | S           | S                         | S      | S          |
| Life sciences.....                   | 6,100          | 1,800                    | 500   | 900     | 400         | 700                       | 100    | 600        |
| Business and                         |                |                          |       |         |             |                           |        |            |
| Industry.....                        | 1,900          | 500                      | 100   | 200     | 200         | 200                       | S      | 200        |
| Industry.....                        | 1,700          | 500                      | 100   | 200     | 200         | 200                       | S      | 100        |
| Self employed.....                   | 300            | S                        | S     | S       | S           | S                         | S      | S          |
| Educ inst, total.....                | 2,300          | 800                      | 400   | 300     | 100         | 100                       | S      | S          |
| 4-yr college/univ.....               | 1,200          | 600                      | 300   | 200     | 100         | 100                       | S      | S          |
| Other.....                           | 1,100          | 200                      | 100   | 100     | S           | S                         | S      | S          |
| Nonprofit orgs.....                  | 100            | 100                      | S     | 100     | S           | S                         | S      | 100        |
| Federal Government.....              | 600            | 100                      | S     | 100     | S           | 100                       | S      | 200        |
| State/local govt.....                | 700            | 200                      | S     | 200     | S           | 200                       | S      | 200        |
| Other.....                           | 600            | 100                      | S     | 100     | S           | 100                       | S      | 100        |
| Psychology.....                      | 2,400          | 200                      | S     | S       | 100         | 500                       | S      | 500        |
| Business and                         |                |                          |       |         |             |                           |        |            |
| Industry.....                        | 900            | S                        | S     | S       | S           | 300                       | S      | 300        |
| Industry.....                        | 900            | S                        | S     | S       | S           | 300                       | S      | 300        |
| Educ inst, total.....                | 700            | S                        | S     | S       | S           | S                         | S      | S          |
| 4-yr college/univ.....               | 300            | S                        | S     | S       | S           | S                         | S      | S          |
| Other.....                           | 400            | S                        | S     | S       | S           | S                         | S      | S          |
| Nonprofit orgs.....                  | 100            | S                        | S     | S       | S           | S                         | S      | S          |
| Federal Government.....              | 100            | 100                      | S     | 100     | S           | 100                       | S      | 100        |
| State/local govt.....                | 100            | S                        | S     | S       | S           | 100                       | S      | 100        |
| Other.....                           | 400            | S                        | S     | S       | S           | 100                       | S      | 100        |
| Social sciences.....                 | 7,500          | 800                      | 200   | 500     | 100         | 1,200                     | 100    | 1,100      |
| Business and                         |                |                          |       |         |             |                           |        |            |
| Industry.....                        | 2,700          | 300                      | S     | 100     | 100         | 500                       | S      | 400        |
| Industry.....                        | 1,900          | 300                      | S     | 100     | 100         | 400                       | S      | 400        |
| Self employed.....                   | 800            | S                        | S     | S       | S           | 100                       | S      | S          |
| Educ inst, total.....                | 2,400          | 300                      | 200   | 100     | 200         | 200                       | S      | 200        |
| 4-yr college/univ.....               | 1,200          | 300                      | 200   | 100     | 100         | 100                       | S      | 100        |
| Other.....                           | 1,200          | S                        | S     | S       | S           | 100                       | S      | 100        |
| Nonprofit orgs.....                  | 300            | 100                      | S     | 100     | 100         | 100                       | S      | S          |
| Federal Government.....              | 700            | 100                      | S     | 100     | 100         | 100                       | S      | 100        |
| State/local govt.....                | 1,000          | 100                      | S     | 100     | 100         | 100                       | S      | 100        |
| Other.....                           | 400            | S                        | S     | S       | S           | 200                       | S      | 200        |
| Total engineering.....               | 17,400         | 9,200                    | 300   | 1,300   | 7,600       | 2,000                     | 1,000  | 1,000      |
| Business and                         |                |                          |       |         |             |                           |        |            |
| Industry.....                        | 13,200         | 7,400                    | 100   | 600     | 6,700       | 1,200                     | 500    | 700        |
| Industry.....                        | 13,000         | 7,400                    | 100   | 600     | 6,700       | 1,200                     | 500    | 600        |
| Self employed.....                   | 200            | S                        | S     | S       | S           | 100                       | S      | 100        |
| Educ inst, total.....                | 600            | 300                      | 100   | 100     | 100         | 100                       | 100    | S          |
| 4-yr college/univ.....               | 500            | 300                      | 100   | 100     | 100         | 100                       | 100    | S          |
| Other.....                           | 100            | S                        | S     | S       | S           | S                         | S      | S          |
| Nonprofit orgs.....                  | 100            | 100                      | S     | 100     | S           | S                         | S      | S          |
| Federal Government.....              | 1,400          | 800                      | 100   | 300     | 400         | 300                       | 200    | 100        |
| State/local govt.....                | 600            | 300                      | S     | 200     | 100         | 100                       | S      | 100        |
| Other.....                           | 1,400          | 300                      | S     | 100     | 200         | 200                       | 200    | 100        |
| No report.....                       | S              | S                        | S     | S       | S           | S                         | S      | S          |

See explanatory information and SOURCE at end of table.

Table B-38. 1989 science and engineering master's-degree recipients, by field of degree, type of employer, and primary work activity: 1990

| Field of degree and type of employer | Primary work activity |                       |                               |       |                       |       |           |
|--------------------------------------|-----------------------|-----------------------|-------------------------------|-------|-----------------------|-------|-----------|
|                                      | Teaching              | Production/inspection | Reporting/stat work/computing | Sales | Professional services | Other | No report |
| Environ science.....                 | 100                   | 300                   | 300                           | S     | S                     | 500   | S         |
| Business and                         |                       |                       |                               |       |                       |       |           |
| Industry.....                        | S                     | 300                   | 200                           | S     | S                     | 400   | S         |
| Industry.....                        | S                     | 300                   | 200                           | S     | S                     | 400   | S         |
| Self employed.....                   | S                     |                       |                               |       |                       |       |           |
| Educ inst total.....                 | 100                   |                       |                               |       |                       |       |           |
| 4-yr college/univ.....               | S                     |                       |                               |       |                       |       |           |
| Other.....                           | 100                   |                       |                               |       |                       |       |           |
| Nonprofit orgs.....                  | S                     |                       |                               |       |                       |       |           |
| Federal Government.....              | S                     |                       |                               |       |                       |       |           |
| State/local govt.....                | S                     |                       | 100                           |       |                       |       |           |
| Other.....                           | S                     |                       |                               |       |                       |       |           |
| No report.....                       | S                     |                       |                               |       |                       |       |           |
| Life sciences.....                   | 1,200                 | 600                   | 500                           | 500   | 300                   | 600   | S         |
| Business and                         |                       |                       |                               |       |                       |       |           |
| Industry.....                        | S                     | 300                   | 100                           | 500   | S                     | 300   | S         |
| Industry.....                        | S                     | 200                   | 100                           | 400   | S                     | 200   | S         |
| Self employed.....                   | S                     | 100                   |                               | 100   |                       |       |           |
| Educ inst total.....                 | 1,100                 | 100                   | 200                           |       | 100                   |       |           |
| 4-yr college/univ.....               | 200                   | 100                   | 200                           |       | 100                   |       |           |
| Other.....                           | 900                   |                       |                               |       |                       |       |           |
| Nonprofit orgs.....                  | 100                   |                       |                               |       |                       |       |           |
| Federal Government.....              | S                     | 100                   |                               |       |                       |       |           |
| State/local govt.....                | 100                   |                       | 100                           |       | 100                   |       |           |
| Other.....                           | S                     |                       |                               |       | 100                   | 300   |           |
| Psychology.....                      | 800                   | S                     | 200                           | S     | 300                   | 400   | S         |
| Business and                         |                       |                       |                               |       |                       |       |           |
| Industry.....                        | 300                   | S                     | 100                           | S     |                       | 100   | S         |
| Industry.....                        | 300                   |                       | 100                           |       |                       | 100   |           |
| Educ inst total.....                 | 400                   |                       | 100                           |       |                       | 200   |           |
| 4-yr college/univ.....               | 100                   |                       | 100                           |       |                       | 100   |           |
| Other.....                           | 300                   |                       |                               |       |                       | 100   |           |
| Nonprofit orgs.....                  | S                     |                       | 100                           |       |                       |       |           |
| Federal Government.....              | S                     |                       |                               |       |                       |       |           |
| State/local govt.....                | S                     |                       |                               |       | 200                   |       |           |
| Other.....                           | S                     |                       |                               |       |                       |       |           |
| Social sciences.....                 | 1,300                 | 100                   | 1,700                         | 600   | 100                   | 1,700 | 100       |
| Business and                         |                       |                       |                               |       |                       |       |           |
| Industry.....                        | S                     | 100                   | 400                           | 500   | S                     | 900   | S         |
| Industry.....                        | S                     | 100                   | 400                           | 500   | S                     | 200   | S         |
| Self employed.....                   | S                     |                       |                               |       |                       | 600   |           |
| Educ inst total.....                 | 1,100                 |                       | 400                           |       |                       | 200   |           |
| 4-yr college/univ.....               | 200                   |                       | 300                           |       |                       | 200   |           |
| Other.....                           | 900                   |                       | 100                           |       |                       | 200   |           |
| Nonprofit orgs.....                  | S                     |                       |                               |       |                       |       |           |
| Federal Government.....              | S                     |                       | 100                           |       |                       | 300   |           |
| State/local govt.....                | S                     |                       | 700                           |       |                       | 200   |           |
| Other.....                           | S                     |                       |                               |       |                       | 200   |           |
| Total engineering.....               | 300                   | 1,900                 | 1,400                         | 400   | S                     | 2,100 | S         |
| Business and                         |                       |                       |                               |       |                       |       |           |
| Industry.....                        | S                     | 1,300                 | 1,100                         | 300   | S                     | 1,800 | S         |
| Industry.....                        | S                     | 1,300                 | 1,100                         | 200   | S                     | 1,800 | S         |
| Self employed.....                   | S                     |                       |                               | 100   |                       |       |           |
| Educ inst total.....                 | 100                   |                       |                               |       |                       |       |           |
| 4-yr college/univ.....               | 100                   |                       |                               |       |                       |       |           |
| Other.....                           | 100                   |                       |                               |       |                       |       |           |
| Nonprofit orgs.....                  | S                     |                       |                               |       |                       |       |           |
| Federal Government.....              | S                     | 100                   | 100                           |       |                       | 100   |           |
| State/local govt.....                | S                     |                       | 100                           |       |                       |       |           |
| Other.....                           | 100                   | 500                   | 100                           |       |                       | 200   |           |
| No report.....                       | S                     |                       |                               |       |                       |       |           |

KEY: S = Data suppressed for statistical reasons

NOTES: Because of rounding, components may not add to totals.  
Data exclude those on full-time graduate students.

SOURCE: National Science Foundation/SRS, 1990 New Entrants Survey

Table B-39. 1989 science and engineering (S&E) master's-degree recipients, by field of degree and field of employment: 1990

| Field of degree        | Total employed | Employed in non S&E occupation | Employed in S&E occupation | S&E field of employment |                   |                         |           |                  |
|------------------------|----------------|--------------------------------|----------------------------|-------------------------|-------------------|-------------------------|-----------|------------------|
|                        |                |                                |                            | Chemistry               | Physics/astronomy | Other physical sciences | Math/stat | Computer science |
| Total, all fields..... | 51,800         | 8,800                          | 42,900                     | 600                     | 400               | 800                     | 3,100     | 10,900           |
| Total sciences.....    | 34,400         | 7,600                          | 26,800                     | 600                     | 300               | 800                     | 2,900     | 9,000            |
| Physical sciences..... | 2,400          | 400                            | 2,000                      | 500                     | 200               | 500                     | 100       | 100              |
| Chemistry.....         | 900            | 100                            | 800                        | 500                     | S                 | 100                     | S         | S                |
| Physics/astronomy..... | 800            | 200                            | 600                        | S                       | 200               | 100                     | S         | 100              |
| Other phys sciences... | 800            | 100                            | 600                        | S                       | S                 | 300                     | S         | S                |
| Math/statistics.....   | 3,800          | 600                            | 3,200                      | S                       | S                 | S                       | 2,200     | 500              |
| Computer science.....  | 10,100         | 800                            | 9,300                      | S                       | S                 | S                       | 300       | 7,900            |
| Environment.....       | 2,000          | 200                            | 1,800                      | S                       | S                 | 100                     | S         | 100              |
| Life sciences.....     | 6,100          | 1,700                          | 4,400                      | 100                     | S                 | S                       | 200       | 100              |
| Biology.....           | 3,800          | 1,200                          | 2,600                      | S                       | S                 | S                       | 100       | 100              |
| Agr science.....       | 2,300          | 500                            | 1,800                      | S                       | S                 | S                       | 100       | 100              |
| Psychology.....        | 2,400          | 1,100                          | 1,300                      | S                       | S                 | S                       | S         | 100              |
| Social sciences.....   | 7,500          | 2,800                          | 4,800                      | S                       | S                 | 100                     | 100       | 100              |
| Economics.....         | 1,900          | 700                            | 1,200                      | S                       | S                 | S                       | 100       | S                |
| Socio/anthro.....      | 1,400          | 400                            | 1,000                      | S                       | S                 | S                       | S         | 100              |
| Other soc sciences.... | 4,200          | 1,700                          | 2,600                      | S                       | S                 | 100                     | S         | S                |
| Total engineering..... | 17,400         | 1,300                          | 16,100                     | S                       | 100               | 100                     | 200       | 1,900            |
| Aero/astro.....        | 800            | 100                            | 700                        | S                       | S                 | S                       | S         | S                |
| Chemical.....          | 600            | S                              | 600                        | S                       | S                 | S                       | S         | S                |
| Civil.....             | 2,300          | 100                            | 2,200                      | S                       | S                 | S                       | S         | S                |
| Elect/electron.....    | 5,400          | 300                            | 5,100                      | S                       | 100               | S                       | S         | 1,000            |
| Industrial.....        | 1,000          | 200                            | 800                        | S                       | S                 | S                       | 100       | 200              |
| Materials.....         | 500            | 100                            | 500                        | S                       | S                 | S                       | S         | 300              |
| Mechanical.....        | 3,300          | 200                            | 3,100                      | S                       | S                 | S                       | S         | S                |
| Mining.....            | 200            | S                              | 200                        | S                       | S                 | S                       | S         | S                |
| Nuclear.....           | 100            | S                              | 100                        | S                       | S                 | S                       | S         | S                |
| Petroleum.....         | 100            | S                              | 100                        | S                       | S                 | S                       | 100       | 300              |
| Other engineering..... | 3,000          | 200                            | 2,800                      | S                       | S                 | S                       | S         | S                |

| Field of degree        | S&E field of employment |         |               |            |           |                         |                       |             |
|------------------------|-------------------------|---------|---------------|------------|-----------|-------------------------|-----------------------|-------------|
|                        | Environ science         | Biology | Agric science | Psychology | Economics | Sociology anthro-pology | Other social sciences | Engineering |
| Total, all fields..... | 1,500                   | 2,400   | 1,600         | 1,000      | 700       | 600                     | 3,000                 | 16,200      |
| Total sciences.....    | 1,500                   | 2,400   | 1,500         | 1,000      | 700       | 600                     | 3,000                 | 2,500       |
| Physical sciences..... | S                       | 200     | S             | S          | S         | S                       | S                     | 400         |
| Chemistry.....         | S                       | S       | S             | S          | S         | S                       | S                     | 100         |
| Physics/astronomy..... | S                       | S       | S             | S          | S         | S                       | S                     | 200         |
| Other phys sciences... | S                       | 100     | S             | S          | S         | S                       | S                     | 200         |
| Math/statistics.....   | S                       | S       | S             | S          | S         | S                       | S                     | 400         |
| Computer science.....  | S                       | S       | S             | S          | S         | S                       | S                     | 900         |
| Environment.....       | 1,300                   | S       | S             | S          | S         | S                       | S                     | 200         |
| Life sciences.....     | 200                     | 2,100   | 1,400         | S          | S         | S                       | S                     | 300         |
| Biology.....           | 200                     | 2,000   | 200           | S          | S         | S                       | S                     | 300         |
| Agr science.....       | 100                     | 100     | 1,200         | S          | S         | S                       | S                     | S           |
| Psychology.....        | S                       | S       | S             | 1,000      | S         | S                       | 100                   | 100         |
| Social sciences.....   | S                       | S       | S             | S          | 700       | 600                     | 2,800                 | 200         |
| Economics.....         | S                       | S       | S             | S          | 600       | S                       | 400                   | 100         |
| Socio/anthro.....      | S                       | S       | S             | S          | S         | 500                     | 300                   | S           |
| Other soc sciences.... | S                       | S       | S             | S          | S         | 100                     | 2,200                 | 100         |
| Total engineering..... | S                       | S       | 100           | S          | S         | S                       | S                     | 13,600      |
| Aero/astro.....        | S                       | S       | S             | S          | S         | S                       | S                     | 700         |
| Chemical.....          | S                       | S       | S             | S          | S         | S                       | S                     | 500         |
| Civil.....             | S                       | S       | S             | S          | S         | S                       | S                     | 2,100       |
| Elect/electron.....    | S                       | S       | 100           | S          | S         | S                       | S                     | 3,900       |
| Industrial.....        | S                       | S       | S             | S          | S         | S                       | S                     | 600         |
| Materials.....         | S                       | S       | S             | S          | S         | S                       | S                     | 500         |
| Mechanical.....        | S                       | S       | S             | S          | S         | S                       | S                     | 2,700       |
| Mining.....            | S                       | S       | S             | S          | S         | S                       | S                     | 200         |
| Nuclear.....           | S                       | S       | S             | S          | S         | S                       | S                     | 100         |
| Petroleum.....         | S                       | S       | S             | S          | S         | S                       | S                     | 100         |
| Other engineering..... | S                       | S       | S             | S          | S         | S                       | S                     | 2,300       |

KEY: S = Data suppressed for statistical reasons

NOTES: Because of rounding, components may not add to totals.  
Data exclude those on full-time graduate students.

SOURCE: National Science Foundation/SRS, 1990 New Entrants Survey

Table 8-40. 1989 science and engineering (S&E) master's-degree recipients employed in S&E occupations, by field of degree, type of employer, and primary work activity: 1990

| Field of degree         | Employed in S&E occupation | Primary work activity    |       |         |             |                           |        |            |
|-------------------------|----------------------------|--------------------------|-------|---------|-------------|---------------------------|--------|------------|
|                         |                            | Research and development |       |         |             | Management/administration |        |            |
|                         |                            | Total                    | Basic | Applied | Development | Total                     | Of R&D | Of non-R&D |
| Total, all fields.....  | 42,900                     | 16,500                   | 1,400 | 3,700   | 11,300      | 4,900                     | 2,000  | 2,800      |
| Business and            |                            |                          |       |         |             |                           |        |            |
| Industry.....           | 26,600                     | 11,800                   | 300   | 1,600   | 9,900       | 2,600                     | 1,200  | 1,400      |
| Industry.....           | 25,500                     | 11,700                   | 300   | 1,600   | 9,800       | 2,500                     | 1,200  | 1,300      |
| Self employed.....      | 1,200                      | 100                      | \$    | \$      | 100         | 100                       | \$     | 100        |
| Educ inst, total.....   | 6,900                      | 1,800                    | 900   | 700     | 200         | 300                       | 200    | 200        |
| 4-yr college/univ.....  | 3,700                      | 1,600                    | 800   | 600     | 200         | 300                       | 200    | 200        |
| Other.....              | 3,200                      | 200                      | 100   | 100     | \$          | \$                        | \$     | \$         |
| Nonprofit orgs.....     | 600                        | 300                      | \$    | 200     | 100         | 100                       | \$     | \$         |
| Federal Government..... | 3,500                      | 1,400                    | 200   | 700     | 600         | 600                       | \$     | 300        |
| State/local govt.....   | 2,400                      | 600                      | \$    | 400     | 200         | 500                       | \$     | 400        |
| Other.....              | 3,000                      | 500                      | \$    | 200     | 300         | 700                       | 300    | 500        |
| Total sciences.....     | 26,800                     | 7,900                    | 1,200 | 2,500   | 4,200       | 3,100                     | 1,000  | 2,000      |
| Business and            |                            |                          |       |         |             |                           |        |            |
| Industry.....           | 14,200                     | 4,900                    | 300   | 1,000   | 3,600       | 1,500                     | 700    | 800        |
| Industry.....           | 13,200                     | 4,800                    | 300   | 1,000   | 3,600       | 1,400                     | 700    | 700        |
| Self employed.....      | 1,000                      | 100                      | \$    | \$      | 100         | 100                       | \$     | 100        |
| Educ inst, total.....   | 6,300                      | 1,500                    | 800   | 600     | 100         | 200                       | 100    | 200        |
| 4-yr college/univ.....  | 3,200                      | 1,300                    | 700   | 500     | 100         | 200                       | 100    | 200        |
| Other.....              | 3,100                      | 200                      | 100   | 100     | \$          | \$                        | \$     | \$         |
| Nonprofit orgs.....     | 600                        | 200                      | \$    | 200     | 100         | 100                       | \$     | \$         |
| Federal Government..... | 2,100                      | 600                      | 100   | 400     | 200         | 300                       | 100    | 200        |
| State/local govt.....   | 1,900                      | 400                      | \$    | 300     | 100         | 400                       | \$     | 400        |
| Other.....              | 1,800                      | 200                      | \$    | 100     | 100         | 600                       | 100    | 400        |
| Physical sciences.....  | 2,000                      | 800                      | 200   | 300     | 300         | 100                       | 100    | 100        |
| Business and            |                            |                          |       |         |             |                           |        |            |
| Industry.....           | 1,000                      | 500                      | 100   | 200     | 200         | 100                       | 100    | \$         |
| Industry.....           | 1,000                      | 500                      | 100   | 200     | 200         | 100                       | 100    | \$         |
| Self employed.....      | \$                         | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Educ inst, total.....   | 600                        | 100                      | 100   | \$      | \$          | \$                        | \$     | \$         |
| 4-yr college/univ.....  | 300                        | 100                      | 100   | \$      | \$          | \$                        | \$     | \$         |
| Other.....              | 300                        | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Nonprofit orgs.....     | \$                         | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Federal Government..... | 100                        | 100                      | \$    | \$      | \$          | \$                        | \$     | \$         |
| State/local govt.....   | 100                        | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Other.....              | 100                        | 100                      | \$    | \$      | \$          | \$                        | \$     | \$         |
| Math/statistics.....    | 3,200                      | 600                      | \$    | 200     | 400         | 300                       | 100    | 200        |
| Business and            |                            |                          |       |         |             |                           |        |            |
| Industry.....           | 1,500                      | 400                      | \$    | 100     | 300         | 100                       | 100    | 100        |
| Industry.....           | 1,500                      | 400                      | \$    | 100     | 300         | 100                       | 100    | 100        |
| Self employed.....      | \$                         | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Educ inst, total.....   | 1,300                      | 100                      | \$    | \$      | \$          | \$                        | \$     | \$         |
| 4-yr college/univ.....  | 400                        | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Other.....              | 900                        | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Nonprofit orgs.....     | \$                         | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Federal Government..... | 100                        | 100                      | \$    | \$      | \$          | \$                        | \$     | \$         |
| State/local govt.....   | \$                         | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Other.....              | 200                        | \$                       | \$    | \$      | \$          | 200                       | \$     | 100        |
| Computer science.....   | 9,300                      | 3,400                    | \$    | 400     | 2,900       | 1,100                     | 600    | 500        |
| Business and            |                            |                          |       |         |             |                           |        |            |
| Industry.....           | 7,200                      | 2,900                    | \$    | 200     | 2,700       | 700                       | 500    | 200        |
| Industry.....           | 7,100                      | 2,800                    | \$    | 200     | 2,600       | 700                       | 500    | 200        |
| Self employed.....      | 200                        | 100                      | \$    | \$      | 100         | \$                        | \$     | \$         |
| Educ inst, total.....   | 600                        | 200                      | \$    | 100     | 100         | 100                       | \$     | \$         |
| 4-yr college/univ.....  | 500                        | 200                      | \$    | 100     | 100         | 100                       | \$     | \$         |
| Other.....              | 200                        | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Nonprofit orgs.....     | 100                        | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Federal Government..... | 400                        | 200                      | \$    | 100     | 100         | 100                       | 100    | \$         |
| State/local govt.....   | 200                        | 100                      | \$    | 100     | 100         | \$                        | \$     | \$         |
| Other.....              | 700                        | \$                       | \$    | \$      | \$          | 300                       | \$     | 200        |

See explanatory information and SOURCE at end of table.

Table B-40. 1989 science and engineering (S&E) master's-degree recipients employed in S&E occupations, by field of degree, type of employer, and primary work activity: 1990

| Field of degree            | Primary work activity |                       |                               |       |                       |       | No report |
|----------------------------|-----------------------|-----------------------|-------------------------------|-------|-----------------------|-------|-----------|
|                            | Teaching              | Production/inspection | Reporting/stat work/computing | Sales | Professional services | Other |           |
| Total, all fields.....     | 4,700                 | 3,300                 | 8,000                         | 500   | 300                   | 4,700 | 100       |
| Business and Industry..... | 600                   | 2,300                 | 5,100                         | 500   | \$                    | 3,600 | \$        |
| Industry.....              | 600                   | 2,200                 | 5,000                         | 300   | \$                    | 3,000 | \$        |
| Self employed.....         | \$                    | 100                   | 100                           | 100   | \$                    | 700   | \$        |
| Educ inst, total.....      | 3,700                 | 100                   | 800                           | \$    | \$                    | 100   | \$        |
| 4-yr college/univ.....     | 900                   | 100                   | 600                           | \$    | \$                    | 100   | \$        |
| Other.....                 | 2,800                 | \$                    | 100                           | \$    | \$                    | 100   | \$        |
| Nonprofit orgs.....        | \$                    | \$                    | 200                           | \$    | \$                    | \$    | \$        |
| Federal Government.....    | 100                   | 200                   | 500                           | \$    | \$                    | 500   | \$        |
| State/local govt.....      | \$                    | 100                   | 1,000                         | \$    | \$                    | 100   | \$        |
| Other.....                 | 200                   | 600                   | 400                           | \$    | 200                   | 300   | \$        |
| Total sciences.....        | 4,400                 | 1,500                 | 6,600                         | 200   | 300                   | 2,800 | \$        |
| Business and Industry..... | 600                   | 1,100                 | 4,000                         | 200   | \$                    | 1,900 | \$        |
| Industry.....              | 600                   | 1,000                 | 3,900                         | 100   | \$                    | 1,300 | \$        |
| Self employed.....         | \$                    | 100                   | 100                           | 100   | \$                    | 600   | \$        |
| Educ inst, total.....      | 3,600                 | 100                   | 700                           | \$    | \$                    | 100   | \$        |
| 4-yr college/univ.....     | 900                   | 100                   | 600                           | \$    | \$                    | 100   | \$        |
| Other.....                 | 2,700                 | \$                    | 100                           | \$    | \$                    | 100   | \$        |
| Nonprofit orgs.....        | \$                    | \$                    | 200                           | \$    | \$                    | \$    | \$        |
| Federal Government.....    | 100                   | 100                   | 400                           | \$    | \$                    | 400   | \$        |
| State/local govt.....      | \$                    | 100                   | 1,000                         | \$    | \$                    | 100   | \$        |
| Other.....                 | 100                   | 200                   | 300                           | \$    | 200                   | 200   | \$        |
| Physical sciences.....     | 600                   | 300                   | 100                           | \$    | \$                    | 200   | \$        |
| Business and Industry..... | 100                   | 200                   | \$                            | \$    | \$                    | 100   | \$        |
| Industry.....              | 100                   | 200                   | \$                            | \$    | \$                    | 100   | \$        |
| Self employed.....         | \$                    | \$                    | \$                            | \$    | \$                    | \$    | \$        |
| Educ inst, total.....      | 500                   | \$                    | \$                            | \$    | \$                    | \$    | \$        |
| 4-yr college/univ.....     | 200                   | \$                    | \$                            | \$    | \$                    | \$    | \$        |
| Other.....                 | 300                   | \$                    | \$                            | \$    | \$                    | \$    | \$        |
| Nonprofit orgs.....        | \$                    | \$                    | \$                            | \$    | \$                    | \$    | \$        |
| Federal Government.....    | \$                    | \$                    | \$                            | \$    | \$                    | \$    | \$        |
| State/local govt.....      | \$                    | \$                    | \$                            | \$    | \$                    | \$    | \$        |
| Other.....                 | \$                    | \$                    | \$                            | \$    | \$                    | \$    | \$        |
| Math/statistics.....       | 1,200                 | 200                   | 900                           | \$    | \$                    | 100   | \$        |
| Business and Industry..... | \$                    | 200                   | 700                           | \$    | \$                    | 100   | \$        |
| Industry.....              | \$                    | 200                   | 700                           | \$    | \$                    | 100   | \$        |
| Self employed.....         | \$                    | \$                    | \$                            | \$    | \$                    | \$    | \$        |
| Educ inst, total.....      | 1,200                 | \$                    | 100                           | \$    | \$                    | \$    | \$        |
| 4-yr college/univ.....     | 300                   | \$                    | \$                            | \$    | \$                    | \$    | \$        |
| Other.....                 | 900                   | \$                    | \$                            | \$    | \$                    | \$    | \$        |
| Nonprofit orgs.....        | \$                    | \$                    | \$                            | \$    | \$                    | \$    | \$        |
| Federal Government.....    | \$                    | \$                    | \$                            | \$    | \$                    | \$    | \$        |
| State/local govt.....      | \$                    | \$                    | \$                            | \$    | \$                    | \$    | \$        |
| Other.....                 | \$                    | \$                    | \$                            | \$    | \$                    | \$    | \$        |
| Computer science.....      | 400                   | 300                   | 3,600                         | 100   | \$                    | 300   | \$        |
| Business and Industry..... | 100                   | 200                   | 2,800                         | 100   | \$                    | 300   | \$        |
| Industry.....              | 100                   | 200                   | 2,800                         | 100   | \$                    | 300   | \$        |
| Self employed.....         | \$                    | \$                    | \$                            | 100   | \$                    | \$    | \$        |
| Educ inst, total.....      | 200                   | \$                    | 200                           | \$    | \$                    | \$    | \$        |
| 4-yr college/univ.....     | 100                   | \$                    | 100                           | \$    | \$                    | \$    | \$        |
| Other.....                 | 100                   | \$                    | \$                            | \$    | \$                    | \$    | \$        |
| Nonprofit orgs.....        | \$                    | \$                    | 100                           | \$    | \$                    | \$    | \$        |
| Federal Government.....    | \$                    | \$                    | 100                           | \$    | \$                    | \$    | \$        |
| State/local govt.....      | \$                    | \$                    | 100                           | \$    | \$                    | \$    | \$        |
| Other.....                 | 100                   | 100                   | 200                           | \$    | \$                    | \$    | \$        |

See explanatory information and SOURCE at end of table.

Table B-40. 1989 science and engineering (S&E) master's-degree recipients employed in S&E occupations, by field of degree, type of employer, and primary work activity: 1990

| Field of degree            | Employed in S&E occupation | Primary work activity    |       |         |             |                           |        |            |
|----------------------------|----------------------------|--------------------------|-------|---------|-------------|---------------------------|--------|------------|
|                            |                            | Research and development |       |         |             | Management/administration |        |            |
|                            |                            | Total                    | Basic | Applied | Development | Total                     | Of R&D | Of non-R&D |
| Environ science.....       | 1,800                      | 500                      | 100   | 300     | 100         | 200                       | 100    | 100        |
| Business and Industry..... | 1,200                      | 300                      | \$    | 200     | 100         | 100                       | \$     | \$         |
| Industry.....              | 1,100                      | 300                      | \$    | 200     | 100         | 100                       | \$     | \$         |
| Self employed.....         | \$                         | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Educ inst, total.....      | 200                        | 100                      | 100   | \$      | \$          | \$                        | \$     | \$         |
| 4-yr college/univ.....     | 200                        | 100                      | 100   | \$      | \$          | \$                        | \$     | \$         |
| Other.....                 | \$                         | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Nonprofit orgs.....        | \$                         | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Federal Government.....    | 200                        | 100                      | \$    | 100     | \$          | \$                        | \$     | \$         |
| State/local govt.....      | 200                        | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Other.....                 | 100                        | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Life sciences.....         | 4,400                      | 1,600                    | 500   | 900     | 200         | 500                       | 100    | 400        |
| Business and Industry..... | 1,100                      | 500                      | 100   | 200     | 200         | 100                       | \$     | 100        |
| Industry.....              | 1,000                      | 500                      | 100   | 200     | 200         | 100                       | \$     | 100        |
| Self employed.....         | 200                        | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Educ inst, total.....      | 1,700                      | 700                      | 400   | 300     | \$          | 100                       | \$     | \$         |
| 4-yr college/univ.....     | 800                        | 500                      | 300   | 200     | \$          | 100                       | \$     | \$         |
| Other.....                 | 900                        | 200                      | 100   | 100     | \$          | \$                        | \$     | \$         |
| Nonprofit orgs.....        | 100                        | 100                      | \$    | 100     | \$          | \$                        | \$     | \$         |
| Federal Government.....    | 500                        | 100                      | \$    | 100     | \$          | 100                       | \$     | 100        |
| State/local govt.....      | 600                        | 200                      | \$    | 200     | \$          | 200                       | \$     | 200        |
| Other.....                 | 400                        | 100                      | \$    | 100     | \$          | \$                        | \$     | \$         |
| Psychology.....            | 1,300                      | 200                      | \$    | \$      | 100         | 100                       | \$     | 100        |
| Business and Industry..... | 700                        | \$                       | \$    | \$      | \$          | 100                       | \$     | 100        |
| Industry.....              | 700                        | \$                       | \$    | \$      | \$          | 100                       | \$     | 100        |
| Educ inst, total.....      | 300                        | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| 4-yr college/univ.....     | 200                        | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Other.....                 | 100                        | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Nonprofit orgs.....        | \$                         | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Federal Government.....    | 100                        | 100                      | \$    | \$      | 100         | \$                        | \$     | \$         |
| Other.....                 | 200                        | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Social sciences.....       | 4,800                      | 800                      | 200   | 500     | 100         | 700                       | 100    | 600        |
| Business and Industry..... | 1,400                      | 200                      | \$    | 100     | 100         | 300                       | \$     | 300        |
| Industry.....              | 800                        | 200                      | \$    | 100     | 100         | 300                       | \$     | 300        |
| Self employed.....         | 600                        | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Educ inst, total.....      | 1,500                      | 300                      | 200   | 100     | \$          | 100                       | \$     | 100        |
| 4-yr college/univ.....     | 900                        | 300                      | 200   | 100     | \$          | 100                       | \$     | 100        |
| Other.....                 | 600                        | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Nonprofit orgs.....        | 200                        | 100                      | \$    | 100     | \$          | 100                       | \$     | \$         |
| Federal Government.....    | 700                        | 100                      | \$    | 100     | \$          | 100                       | \$     | 100        |
| State/local govt.....      | 800                        | 100                      | \$    | 100     | \$          | 100                       | \$     | 100        |
| Other.....                 | 100                        | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Total engineering.....     | 16,100                     | 8,600                    | 200   | 1,200   | 7,100       | 1,800                     | 1,000  | 800        |
| Business and Industry..... | 12,400                     | 6,900                    | 100   | 600     | 6,200       | 1,100                     | 500    | 600        |
| Industry.....              | 12,200                     | 6,900                    | 100   | 600     | 6,200       | 1,100                     | 500    | 600        |
| Self employed.....         | 200                        | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Educ inst, total.....      | 500                        | 300                      | 100   | 100     | 100         | 100                       | 100    | 100        |
| 4-yr college/univ.....     | 500                        | 300                      | 100   | 100     | 100         | 100                       | 100    | 100        |
| Other.....                 | 100                        | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Nonprofit orgs.....        | \$                         | \$                       | \$    | \$      | \$          | \$                        | \$     | \$         |
| Federal Government.....    | 1,400                      | 800                      | 100   | 300     | 400         | 300                       | 200    | 100        |
| State/local govt.....      | 600                        | 300                      | \$    | 200     | 100         | 100                       | \$     | 100        |
| Other.....                 | 1,200                      | 300                      | \$    | 100     | 200         | 200                       | 200    | \$         |

See explanatory information and SOURCE at end of table.

Table B-40. 1989 science and engineering (S&E) master's-degree recipients employed in S&E occupations, by field of degree, type of employer, and primary work activity: 1990

| Field of degree         | Primary work activity |                       |                               |       |                       |       |           |
|-------------------------|-----------------------|-----------------------|-------------------------------|-------|-----------------------|-------|-----------|
|                         | Teaching              | Production/inspection | Reporting/stat work/computing | Sales | Professional services | Other | No report |
| Environ science.....    | 100                   | 300                   | 300                           | S     | S                     | 500   | S         |
| Business and            |                       |                       |                               |       |                       |       |           |
| Industry.....           | S                     | 300                   | 200                           | S     | S                     | 400   | S         |
| Industry.....           |                       | 300                   | 200                           |       |                       | 400   |           |
| Self employed.....      |                       |                       |                               |       |                       |       |           |
| Educ inst, total.....   | 100                   |                       |                               |       |                       |       |           |
| 4-yr college/univ.....  |                       |                       |                               |       |                       |       |           |
| Other.....              |                       |                       |                               |       |                       |       |           |
| Nonprofit orgs.....     |                       |                       |                               |       |                       |       |           |
| Federal Government..... |                       |                       | 100                           |       |                       |       |           |
| State/local govt.....   |                       |                       |                               |       |                       |       |           |
| Other.....              |                       |                       |                               |       |                       |       |           |
| Life sciences.....      | 900                   | 500                   | 500                           | S     | 100                   | 400   | S         |
| Business and            |                       |                       |                               |       |                       |       |           |
| Industry.....           | S                     | 200                   | 100                           | S     | S                     | 200   | S         |
| Industry.....           |                       | 100                   | 100                           |       |                       | 200   |           |
| Self employed.....      |                       | 100                   |                               |       |                       |       |           |
| Educ inst, total.....   | 800                   | 100                   | 100                           |       |                       |       |           |
| 4-yr college/univ.....  | 100                   | 100                   | 100                           |       |                       |       |           |
| Other.....              | 700                   |                       |                               |       |                       |       |           |
| Nonprofit orgs.....     |                       |                       |                               |       |                       |       |           |
| Federal Government..... |                       | 100                   | 100                           |       |                       |       |           |
| State/local govt.....   |                       |                       | 100                           |       |                       |       |           |
| Other.....              |                       |                       |                               |       | 100                   | 100   |           |
| Psychology.....         | 500                   | S                     | 100                           | S     | 200                   | 200   | S         |
| Business and            |                       |                       |                               |       |                       |       |           |
| Industry.....           | 300                   | S                     | 100                           | S     | S                     | 100   | S         |
| Industry.....           | 300                   |                       | 100                           |       |                       | 100   |           |
| Self employed.....      |                       |                       |                               |       |                       |       |           |
| Educ inst, total.....   | 100                   |                       |                               |       |                       |       |           |
| 4-yr college/univ.....  | 100                   |                       |                               |       |                       |       |           |
| Other.....              |                       |                       |                               |       |                       | 100   |           |
| Nonprofit orgs.....     |                       |                       |                               |       |                       |       |           |
| Federal Government..... |                       |                       |                               |       |                       |       |           |
| Other.....              |                       |                       |                               |       | 100                   |       |           |
| Social sciences.....    | 800                   | 100                   | 1,300                         | S     | S                     | 1,100 | S         |
| Business and            |                       |                       |                               |       |                       |       |           |
| Industry.....           | S                     | 100                   | 100                           | S     | S                     | 700   | S         |
| Industry.....           |                       | 100                   | 100                           |       |                       | 100   |           |
| Self employed.....      |                       |                       |                               |       |                       | 600   |           |
| Educ inst, total.....   | 700                   |                       | 400                           |       |                       |       |           |
| 4-yr college/univ.....  | 100                   |                       | 300                           |       |                       |       |           |
| Other.....              | 600                   |                       |                               |       |                       |       |           |
| Nonprofit orgs.....     |                       |                       |                               |       |                       |       |           |
| Federal Government..... |                       |                       | 100                           |       |                       | 300   |           |
| State/local govt.....   |                       |                       | 600                           |       |                       |       |           |
| Other.....              |                       |                       |                               |       |                       |       |           |
| Total engineering.....  | 300                   | 1,300                 | 1,400                         | 300   | S                     | 1,900 | S         |
| Business and            |                       |                       |                               |       |                       |       |           |
| Industry.....           | S                     | 1,200                 | 1,100                         | 300   | S                     | 1,700 | S         |
| Industry.....           |                       | 1,200                 | 1,100                         | 200   |                       | 1,700 |           |
| Self employed.....      |                       |                       |                               | 100   |                       |       |           |
| Educ inst, total.....   | 100                   |                       |                               |       |                       |       |           |
| 4-yr college/univ.....  | 100                   |                       |                               |       |                       |       |           |
| Other.....              | 100                   |                       |                               |       |                       |       |           |
| Nonprofit orgs.....     |                       |                       |                               |       |                       |       |           |
| Federal Government..... |                       |                       | 100                           |       |                       | 100   |           |
| State/local govt.....   |                       |                       | 100                           |       |                       |       |           |
| Other.....              | 100                   | 400                   | 100                           |       |                       | 100   |           |

KEY: S = Data suppressed for statistical reasons  
 NOTES: Because of rounding, components may not add to totals.  
 Data exclude those on full-time graduate students.  
 SOURCE: National Science Foundation/SRS, 1990 New Entrants Survey

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Table B-41. Median annual salaries of 1988 and 1989 science and engineering (S&E) bachelor's-degree recipients, by field of degree, S&E employment status, sex, and racial/ethnic group: 1990

| Field of degree and S&E employment status | Total    | Sex      |          | Racial/ethnic group |          |          |                 |             |
|---|----------|----------|----------|---------------------|----------|----------|-----------------|-------------|
|   |          | Men      | Women    | White               | Black    | Asian    | Native American | Hispanic 1/ |
| Total, all fields.....                    | \$26,000 | \$29,500 | \$21,600 | \$26,100            | \$24,000 | \$30,000 | \$21,900        | \$25,100    |
| S&E occupation....                        | 30,000   | 30,600   | 24,600   | 30,000              | 26,100   | 31,800   | 30,000          | 28,000      |
| Non-S&E occupation                        | 21,400   | 24,000   | 20,000   | 21,100              | 23,000   | 23,000   | M               | 24,000      |
| Total sciences.....                       | 23,000   | 25,100   | 20,100   | 23,000              | 22,200   | 27,900   | M               | 21,100      |
| S&E occupation....                        | 25,000   | 26,900   | 21,900   | 25,000              | 22,600   | 30,000   | M               | 21,000      |
| Non-S&E occupation                        | 21,100   | 23,500   | 20,000   | 20,800              | 22,000   | 21,900   | M               | 23,900      |
| Physical sciences.....                    | 25,100   | 26,500   | 24,900   | 25,000              | M        | M        | M               | 24,000      |
| S&E occupation....                        | 26,000   | 26,900   | 25,000   | 25,100              | M        | M        | M               | 23,000      |
| Non-S&E occupation                        | 25,000   | 25,600   | 22,000   | 25,000              | M        | M        | M               | M           |
| Chemistry.....                            | 25,100   | 27,000   | 23,600   | 25,000              | M        | M        | M               | M           |
| S&E occupation....                        | 25,500   | 27,200   | 23,900   | 25,100              | M        | M        | M               | M           |
| Non-S&E occupation                        | 25,000   | 26,600   | 22,000   | 25,000              | M        | M        | M               | M           |
| Physics/astronomy....                     | 28,000   | 28,200   | M        | 27,500              | M        | M        | M               | M           |
| S&E occupation....                        | 29,000   | 30,000   | M        | 28,500              | M        | M        | M               | M           |
| Non-S&E occupation                        | M        | M        | M        | M                   | M        | M        | M               | M           |
| Other phys sciences...                    | 25,000   | 25,000   | M        | 25,000              | M        | M        | M               | M           |
| S&E occupation....                        | 21,100   | M        | M        | 21,100              | M        | M        | M               | M           |
| Non-S&E occupation                        | M        | M        | M        | M                   | M        | M        | M               | M           |
| Math/statistics.....                      | 23,600   | 24,000   | 23,000   | 24,000              | M        | M        | M               | M           |
| S&E occupation....                        | 25,000   | 25,800   | 24,000   | 25,000              | M        | M        | M               | M           |
| Non-S&E occupation                        | 20,300   | 22,400   | 17,000   | 20,700              | M        | M        | M               | M           |
| Computer science.....                     | 30,100   | 30,600   | 30,000   | 30,100              | 28,000   | 33,200   | M               | 30,000      |
| S&E occupation....                        | 30,300   | 31,000   | 29,500   | 30,500              | 30,000   | 32,800   | M               | 30,000      |
| Non-S&E occupation                        | 27,900   | 27,900   | 30,600   | 27,000              | M        | M        | M               | M           |
| Environ science.....                      | 23,700   | 24,000   | 22,900   | 23,600              | M        | M        | M               | M           |
| S&E occupation....                        | 23,900   | 24,000   | 23,000   | 23,900              | M        | M        | M               | M           |
| Non-S&E occupation                        | 18,000   | M        | M        | 18,000              | M        | M        | M               | M           |
| Life sciences.....                        | 21,000   | 23,000   | 19,600   | 21,000              | 20,100   | M        | M               | M           |
| S&E occupation....                        | 21,000   | 22,600   | 20,000   | 21,000              | M        | M        | M               | M           |
| Non-S&E occupation                        | 20,200   | 24,000   | 18,300   | 20,100              | M        | M        | M               | M           |
| Biology.....                              | 20,500   | 22,500   | 20,000   | 21,000              | M        | M        | M               | M           |
| S&E occupation....                        | 20,600   | 21,900   | 20,100   | 21,000              | M        | M        | M               | M           |
| Non-S&E occupation                        | 20,100   | 24,000   | 19,700   | 20,200              | M        | M        | M               | M           |
| Agr science.....                          | 21,100   | 24,000   | 18,000   | 20,900              | M        | M        | M               | M           |
| S&E occupation....                        | 21,900   | 24,000   | 19,100   | 21,100              | M        | M        | M               | M           |
| Non-S&E occupation                        | 21,000   | 24,500   | 16,600   | 18,900              | M        | M        | M               | M           |
| Psychology.....                           | 18,600   | 21,300   | 18,000   | 18,600              | M        | M        | M               | M           |
| S&E occupation....                        | 18,200   | 26,000   | 17,800   | 18,000              | M        | M        | M               | M           |
| Non-S&E occupation                        | 19,000   | 20,000   | 18,300   | 19,000              | M        | M        | M               | M           |
| Social sciences.....                      | 21,900   | 23,900   | 20,100   | 21,500              | 21,900   | M        | M               | M           |
| S&E occupation....                        | 22,000   | 24,500   | 21,000   | 22,100              | M        | M        | M               | M           |
| Non-S&E occupation                        | 21,500   | 23,000   | 20,100   | 21,100              | 23,500   | M        | M               | M           |
| Economics.....                            | 25,000   | 25,100   | 21,100   | 24,000              | M        | M        | M               | M           |
| S&E occupation....                        | 25,000   | 25,500   | M        | 25,000              | M        | M        | M               | M           |
| Non-S&E occupation                        | 24,000   | 25,000   | 22,900   | 23,500              | M        | M        | M               | M           |
| Socio/anthro.....                         | 20,800   | 21,100   | 20,500   | 19,000              | M        | M        | M               | M           |
| S&E occupation....                        | 21,500   | M        | M        | M                   | M        | M        | M               | M           |
| Non-S&E occupation                        | 20,600   | 21,100   | 20,000   | 18,900              | M        | M        | M               | M           |
| Other soc sciences....                    | 20,800   | 21,500   | 20,000   | 20,100              | M        | M        | M               | M           |
| S&E occupation....                        | 21,000   | 21,000   | 21,000   | 21,100              | M        | M        | M               | M           |
| Non-S&E occupation                        | 20,100   | 21,900   | 20,000   | 20,000              | M        | M        | M               | M           |

See explanatory information and SOURCE at end of table.

Table B-41. Median annual salaries of 1988 and 1989 science and engineering (S&E) bachelor's-degree recipients, by field of degree, S&E employment status, sex, and racial/ethnic group: 1990

| Field of degree and S&E employment status | Total    | Sex      |          | Racial/ethnic group |          |          |                 |             |
|---|----------|----------|----------|---------------------|----------|----------|-----------------|-------------|
|   |          | Men      | Women    | White               | Black    | Asian    | Native American | Hispanic 1/ |
| Total engineering.....                    | \$33,000 | \$33,000 | \$33,800 | \$33,300            | \$32,500 | \$32,800 | M               | \$32,200    |
| S&E occupation....                        | 33,300   | 33,000   | 33,900   | 33,500              | 32,400   | 32,200   | M               | 32,500      |
| Non-S&E occupation                        | 32,000   | 32,100   | 31,800   | 32,100              | M        | M        | M               | M           |
| Aero/astro.....                           | 34,800   | 34,400   | M        | 34,900              | M        | M        | M               | M           |
| S&E occupation....                        | 35,000   | 34,900   | M        | 35,000              | M        | M        | M               | M           |
| Non-S&E occupation                        | M        | M        | M        | M                   | M        | M        | M               | M           |
| Chemical.....                             | 35,100   | 35,100   | 35,100   | 35,200              | M        | M        | M               | M           |
| S&E occupation....                        | 35,200   | 35,000   | 35,300   | 35,300              | M        | M        | M               | M           |
| Non-S&E occupation                        | 34,900   | M        | M        | 34,800              | M        | M        | M               | M           |
| Civil.....                                | 30,100   | 30,100   | 31,100   | 30,000              | M        | 33,600   | M               | 32,900      |
| S&E occupation....                        | 30,300   | 30,100   | 31,100   | 30,100              | M        | 33,600   | M               | 32,900      |
| Non-S&E occupation                        | 28,800   | 28,000   | M        | 28,800              | M        | M        | M               | M           |
| Elect/electron.....                       | 34,000   | 34,000   | 33,900   | 34,300              | 32,900   | 33,300   | M               | M           |
| S&E occupation....                        | 34,000   | 34,000   | 33,900   | 34,300              | 32,900   | 33,400   | M               | M           |
| Non-S&E occupation                        | 33,900   | 33,900   | M        | 34,000              | M        | M        | M               | M           |
| Industrial.....                           | 31,100   | 30,600   | 32,700   | 31,500              | 27,000   | M        | M               | 28,000      |
| S&E occupation....                        | 31,500   | 31,000   | 32,900   | 31,800              | 27,000   | M        | M               | 28,000      |
| Non-S&E occupation                        | 27,000   | 25,700   | M        | 26,900              | M        | M        | M               | M           |
| Materials.....                            | 33,200   | 33,800   | 31,600   | 32,900              | M        | M        | M               | M           |
| S&E occupation....                        | 33,600   | 33,800   | 32,900   | 33,300              | M        | M        | M               | M           |
| Non-S&E occupation                        | M        | M        | M        | M                   | M        | M        | M               | M           |
| Mechanical.....                           | 34,000   | 33,800   | 35,000   | 34,000              | M        | M        | M               | M           |
| S&E occupation....                        | 34,200   | 33,900   | 35,000   | 34,300              | M        | M        | M               | M           |
| Non-S&E occupation                        | 33,000   | 32,900   | M        | 32,900              | M        | M        | M               | M           |
| Mining.....                               | 30,100   | 31,000   | M        | 31,000              | M        | M        | M               | M           |
| S&E occupation....                        | 31,000   | 31,000   | M        | 31,000              | M        | M        | M               | M           |
| Non-S&E occupation                        | M        | M        | M        | M                   | M        | M        | M               | M           |
| Nuclear.....                              | 33,300   | 34,000   | 31,600   | 33,000              | M        | M        | M               | M           |
| S&E occupation....                        | 35,000   | 34,400   | 37,400   | 35,000              | M        | M        | M               | M           |
| Non-S&E occupation                        | M        | M        | M        | M                   | M        | M        | M               | M           |
| Petroleum.....                            | 36,600   | 36,500   | 38,700   | 36,600              | M        | M        | M               | M           |
| S&E occupation....                        | 36,600   | 36,500   | M        | 36,600              | M        | M        | M               | M           |
| Non-S&E occupation                        | M        | M        | M        | M                   | M        | M        | M               | M           |
| Other engineering....                     | 30,000   | 30,000   | 30,100   | 30,100              | M        | M        | M               | M           |
| S&E occupation....                        | 30,000   | 30,000   | 30,000   | 30,100              | M        | M        | M               | M           |
| Non-S&E occupation                        | 28,300   | 29,100   | M        | 29,500              | M        | M        | M               | M           |

1/ Includes members of all racial groups

KEY: M = No median computed for groups with fewer than 20 individuals reporting salary

NOTES: Median salaries computed only for full-time employed civilians.  
Data exclude those on full-time graduate students.

SOURCE: National Science Foundation/SRS, 1990 New Entrants Survey

Table B-42. Median annual salaries of 1988 and 1989 science and engineering bachelor's-degree recipients, by field of degree and type of employer: 1990

| Field of degree        | Total    | Business and industry |          |               | Educational institutions |                   |          | Non profit orgs | Federal Government | State/local governments | Other    | No report |
|------------------------|----------|-----------------------|----------|---------------|--------------------------|-------------------|----------|-----------------|--------------------|-------------------------|----------|-----------|
|                        |          | Total                 | Industry | Self-employed | Total                    | 4-yr college univ | Other    |                 |                    |                         |          |           |
| Total, all fields..... | \$26,000 | \$29,000              | \$29,000 | \$22,500      | \$20,100                 | \$20,000          | \$21,000 | \$18,000        | \$30,000           | \$23,600                | \$19,900 | H         |
| Total sciences.....    | 23,000   | 25,100                | 25,100   | 23,900        | 20,000                   | 18,500            | 21,000   | 18,000          | 24,400             | 22,000                  | 19,100   | H         |
| Physical sciences..... | 27,100   | 27,500                | 27,500   | H             | 21,100                   | H                 | 21,000   | H               | H                  | H                       | H        | H         |
| Chemistry.....         | 25,100   | 26,900                | 26,900   | H             | 20,500                   | H                 | H        | H               | H                  | H                       | H        | H         |
| Physics/astronomy..... | 28,300   | 30,000                | 30,000   | H             | H                        | H                 | H        | H               | H                  | H                       | H        | H         |
| Other phys sciences... | 25,000   | 27,900                | 27,900   | H             | H                        | H                 | H        | H               | H                  | H                       | H        | H         |
| Math/statistics.....   | 23,600   | 26,600                | 26,700   | M             | 20,100                   | H                 | 20,100   | M               | H                  | H                       | H        | H         |
| Computer science.....  | 30,100   | 30,600                | 30,500   | M             | 26,000                   | 26,000            | H        | M               | 30,500             | 24,500                  | 30,000   | M         |
| Environ science.....   | 23,700   | 24,300                | 24,400   | M             | H                        | H                 | H        | H               | H                  | H                       | H        | M         |
| Life sciences.....     | 21,000   | 22,900                | 23,000   | 21,000        | 19,000                   | 17,000            | 21,000   | 20,000          | 20,600             | 18,000                  | 20,000   | M         |
| Biology.....           | 20,500   | 23,000                | 23,500   | M             | 19,000                   | H                 | 19,800   | M               | H                  | H                       | 20,000   | M         |
| Agr science.....       | 21,100   | 22,300                | 22,300   | 20,100        | 18,000                   | H                 | H        | M               | 21,000             | 18,000                  | 19,000   | M         |
| Psychology.....        | 18,600   | 20,800                | 20,700   | M             | 20,100                   | M                 | 21,700   | 16,900          | M                  | H                       | 17,900   | M         |
| Social sciences.....   | 21,900   | 23,000                | 23,000   | M             | 19,000                   | H                 | 20,000   | 19,000          | 22,800             | 21,900                  | 19,000   | M         |
| Economics.....         | 25,000   | 24,000                | 24,000   | M             | H                        | H                 | H        | M               | H                  | H                       | M        | M         |
| Socio/anthro.....      | 20,800   | 20,500                | 20,500   | M             | H                        | H                 | H        | M               | H                  | H                       | M        | M         |
| Other soc sciences.... | 20,800   | 21,500                | 21,500   | M             | H                        | M                 | M        | M               | H                  | 21,900                  | M        | M         |
| Total engineering..... | 33,000   | 33,000                | 33,100   | 20,100        | 29,000                   | 32,000            | M        | M               | 36,800             | 30,600                  | 32,800   | M         |
| Aero/astron.....       | 34,800   | 34,900                | 34,900   | M             | H                        | H                 | M        | M               | 34,900             | M                       | M        | M         |
| Chemical.....          | 35,100   | 35,400                | 35,400   | M             | H                        | H                 | M        | M               | H                  | M                       | M        | M         |
| Civil.....             | 30,100   | 30,000                | 30,100   | M             | H                        | H                 | M        | M               | 32,100             | 30,300                  | M        | M         |
| Elect/electron.....    | 34,000   | 34,000                | 34,000   | M             | H                        | H                 | M        | M               | H                  | H                       | M        | M         |
| Industrial.....        | 31,100   | 31,100                | 31,100   | M             | H                        | H                 | M        | M               | 31,800             | M                       | M        | M         |
| Materials.....         | 33,200   | 33,900                | 33,900   | M             | H                        | H                 | M        | M               | H                  | M                       | M        | M         |
| Mechanical.....        | 34,000   | 34,000                | 34,000   | M             | H                        | H                 | M        | M               | 38,400             | M                       | M        | M         |
| Mining.....            | 30,100   | 30,100                | 30,100   | M             | H                        | H                 | M        | M               | H                  | M                       | M        | M         |
| Nuclear.....           | 33,300   | 34,000                | 34,000   | M             | H                        | H                 | M        | M               | 37,200             | M                       | M        | M         |
| Petroleum.....         | 36,600   | 36,900                | 36,900   | M             | H                        | H                 | M        | M               | H                  | M                       | M        | M         |
| Other engineering..... | 30,000   | 30,000                | 30,100   | M             | H                        | H                 | M        | M               | H                  | M                       | M        | M         |

KEY: M = No median computed for groups with fewer than 20 individuals reporting salary

NOTES: Median salaries computed only for full-time employed civilians.  
Data exclude those on full-time graduate students.

SOURCE: National Science Foundation/SRS, 1990 New Entrants Survey

Table B-43. Median annual salaries of 1988 and 1989 science and engineering bachelor's-degree recipients, by field of degree and primary work activity: 1990

| Field of degree          | Total    | Research and development |          |          |              | Management/administration |          |            |
|--------------------------|----------|--------------------------|----------|----------|--------------|---------------------------|----------|------------|
|                          |          | Total                    | Basic    | Applied  | Develop-ment | Total                     | Of R&D   | Of non-R&D |
| Total, all fields.....   | \$26,000 | \$31,100                 | \$19,800 | \$23,900 | \$32,900     | \$25,000                  | \$30,000 | \$24,100   |
| Total sciences.....      | 23,000   | 25,000                   | 18,000   | 21,100   | 31,000       | 22,900                    | 25,000   | 22,600     |
| Physical sciences.....   | 25,100   | 28,000                   | 21,200   | 27,600   | 28,600       | 30,000                    | 30,000   | 30,700     |
| Chemistry.....           | 25,100   | 26,900                   | 21,200   | 25,100   | 28,000       | 29,500                    | 20,500   | 29,500     |
| Physics/astronomy.....   | 28,000   | 35,000                   | 25,100   | 34,800   | 36,400       | 29,000                    | M        | 29,000     |
| Other phys sciences..... | 25,000   | 27,600                   | 26,300   | 18,400   | 37,900       | 51,100                    | 30,000   | 51,100     |
| Math/statistics.....     | 23,600   | 29,500                   | 18,000   | 23,100   | 31,200       | 21,900                    | 21,100   | 21,900     |
| Computer science.....    | 30,100   | 33,800                   | 30,000   | 33,900   | 33,900       | 30,100                    | 33,300   | 30,100     |
| Environ science.....     | 23,700   | 24,000                   | 32,400   | 24,000   | 18,000       | 25,000                    | 40,100   | 23,500     |
| Life sciences.....       | 21,000   | 20,000                   | 17,900   | 20,200   | 24,000       | 21,000                    | 25,000   | 20,100     |
| Biology.....             | 20,500   | 20,000                   | 17,900   | 20,600   | 20,100       | 18,000                    | 18,000   | 18,200     |
| Agr science.....         | 21,100   | 23,500                   | 21,100   | 17,500   | 30,000       | 21,100                    | 30,000   | 20,700     |
| Psychology.....          | 18,600   | 23,500                   | 26,500   | 20,100   | 24,100       | 21,300                    | 30,000   | 21,300     |
| Social sciences.....     | 21,900   | 21,500                   | 26,500   | 21,400   | 20,200       | 22,800                    | 24,000   | 22,800     |
| Economics.....           | 25,000   | 22,500                   | 23,700   | 20,100   | 25,000       | 23,200                    | 25,100   | 23,000     |
| Socio/anthro.....        | 20,800   | 23,200                   | M        | 20,300   | 26,600       | 22,000                    | 28,000   | 21,900     |
| Other soc sciences.....  | 20,800   | 20,800                   | 26,600   | 21,400   | 18,000       | 22,000                    | 19,700   | 22,000     |
| Total engineering.....   | 33,000   | 34,000                   | 35,000   | 35,900   | 33,900       | 34,000                    | 37,200   | 33,300     |
| Aero/astro.....          | 34,800   | 37,900                   | 34,900   | 36,700   | 38,000       | 25,000                    | 37,200   | 25,000     |
| Chemical.....            | 35,100   | 35,900                   | 33,800   | 33,000   | 36,000       | 33,900                    | 34,800   | 32,100     |
| Civil.....               | 30,100   | 30,100                   | 38,500   | 30,500   | 30,000       | 32,300                    | 31,000   | 32,600     |
| Elect/electron.....      | 34,000   | 34,700                   | 35,600   | 38,000   | 34,200       | 37,300                    | 39,100   | 34,100     |
| Industrial.....          | 31,100   | 30,700                   | 26,900   | 31,400   | 30,700       | 32,600                    | 34,900   | 32,400     |
| Materials.....           | 33,200   | 32,900                   | 36,700   | 30,000   | 33,000       | 34,800                    | M        | 34,800     |
| Mechanical.....          | 34,000   | 34,000                   | 30,000   | 35,900   | 33,900       | 34,800                    | 43,800   | 34,000     |
| Mining.....              | 30,100   | 32,500                   | 38,000   | 38,500   | 30,100       | 31,000                    | 50,000   | 31,000     |
| Nuclear.....             | 33,300   | 35,000                   | M        | 37,500   | 33,000       | 28,800                    | 31,600   | 23,500     |
| Petroleum.....           | 36,600   | 37,400                   | 37,400   | 30,100   | 38,100       | 31,000                    | 31,100   | 30,000     |
| Other engineering.....   | 30,000   | 30,700                   | 43,900   | 33,000   | 30,100       | 30,000                    | 27,400   | 30,500     |

See explanatory information and SOURCE at end of table.

Table B-43. Median annual salaries of 1988 and 1989 science and engineering bachelor's-degree recipients, by field of degree and primary work activity: 1990

| Field of degree        | Teaching | Production/<br>inspection | Reporting/<br>stat work/<br>computing | Sales    | Profes-<br>sional<br>services | Other    | No report |
|------------------------|----------|---------------------------|---------------------------------------|----------|-------------------------------|----------|-----------|
| Total, all fields..... | \$20,000 | \$28,000                  | \$27,900                              | \$21,500 | \$18,600                      | \$24,500 | \$32,800  |
| Total sciences.....    | 19,900   | 23,000                    | 26,600                                | 20,100   | 18,600                        | 21,900   | 18,000    |
| Physical sciences..... | 21,100   | 25,000                    | 25,000                                | 25,000   | 23,000                        | 25,000   | M         |
| Chemistry.....         | 20,400   | 25,000                    | 25,000                                | 25,100   | 23,000                        | 25,000   | M         |
| Physics/astronomy..... | 18,000   | 32,800                    | 21,500                                | 17,500   | M                             | 19,800   | M         |
| Other phys sciences... | 21,900   | 24,000                    | 26,600                                | 25,000   | M                             | 27,000   | M         |
| Math/statistics.....   | 20,100   | 23,900                    | 27,600                                | 18,500   | M                             | 29,000   | 15,000    |
| Computer science.....  | 28,000   | 30,400                    | 29,000                                | 23,900   | 23,000                        | 29,000   | M         |
| Environ science.....   | 21,000   | 25,000                    | 24,000                                | 26,200   | M                             | 22,000   | 24,000    |
| Life sciences.....     | 21,000   | 22,300                    | 21,900                                | 23,000   | 25,100                        | 21,100   | 10,600    |
| Biology.....           | 21,000   | 22,800                    | 20,100                                | 20,000   | 32,000                        | 24,500   | 25,500    |
| Agr science.....       | 20,100   | 21,900                    | 21,900                                | 25,800   | 15,800                        | 19,200   | 10,600    |
| Psychology.....        | 18,000   | 24,500                    | 21,000                                | 17,000   | 17,000                        | 16,900   | 18,000    |
| Social sciences.....   | 19,100   | 20,100                    | 24,500                                | 21,000   | 18,900                        | 21,400   | M         |
| Economics.....         | 20,000   | 22,000                    | 27,400                                | 23,500   | M                             | 25,000   | M         |
| Socio/anthro.....      | 24,000   | 12,000                    | 20,600                                | 15,500   | 18,900                        | 20,800   | M         |
| Other soc sciences.... | 19,000   | 20,000                    | 21,900                                | 20,100   | 16,000                        | 21,100   | M         |
| Total engineering..... | 30,100   | 32,700                    | 32,600                                | 32,100   | 28,000                        | 32,000   | 33,000    |
| Aero/astron.....       | 10,000   | 31,300                    | 32,800                                | 79,600   | M                             | 34,500   | M         |
| Chemical.....          | 23,000   | 35,300                    | 35,000                                | 31,900   | M                             | 31,200   | M         |
| Civil.....             | M        | 30,300                    | 30,000                                | 33,900   | M                             | 30,000   | 32,900    |
| Elect/electron.....    | 32,100   | 33,800                    | 33,900                                | 32,900   | M                             | 32,000   | 38,800    |
| Industrial.....        | 38,000   | 30,000                    | 29,000                                | 32,800   | M                             | 33,900   | 33,400    |
| Materials.....         | M        | 35,100                    | 30,600                                | 32,800   | M                             | 32,800   | M         |
| Mechanical.....        | 30,000   | 33,800                    | 36,500                                | 31,500   | M                             | 35,000   | M         |
| Mining.....            | M        | 30,100                    | 26,600                                | M        | M                             | 31,600   | 40,100    |
| Nuclear.....           | 20,000   | 34,900                    | 35,900                                | M        | 28,000                        | 33,700   | M         |
| Petroleum.....         | M        | 37,600                    | 30,700                                | 34,600   | M                             | 32,300   | 28,000    |
| Other engineering..... | 29,000   | 30,000                    | 30,000                                | 26,600   | M                             | 30,000   | M         |

KEY: M = No median computed for groups with fewer than 20 individuals reporting salary

NOTES: Median salaries computed only for full-time employed civilians.  
Data exclude those on full-time graduate students.

SOURCE: National Science Foundation/SRS, 1990 New Entrants Survey

Table B-44. Median annual salaries of 1988 and 1989 science and engineering (S&E) master's-degree recipients, by field of degree, S&E employment status, sex, and racial/ethnic group: 1990

| Field of degree<br>S&E employment status | Total    | Sex      |          | Racial/ethnic group |          |          |                 |                |
|--|----------|----------|----------|---------------------|----------|----------|-----------------|----------------|
|  |          | Men      | Women    | White               | Black    | Asian    | Native American | Hispanic<br>1/ |
| Total, all fields.....                   | \$37,000 | \$39,000 | \$32,800 | \$37,500            | \$35,000 | \$35,900 | M               | \$36,100       |
| S&E occupation....                       | 38,000   | 39,600   | 33,800   | 38,400              | 35,600   | 36,000   | M               | 40,000         |
| Non-S&E occupation                       | 32,000   | 32,100   | 30,100   | 32,100              | 25,300   | 31,100   | M               | M              |
| Total sciences.....                      | 33,800   | 35,400   | 31,200   | 34,000              | 30,100   | 33,000   | M               | 29,000         |
| S&E occupation....                       | 34,900   | 36,100   | 32,000   | 35,000              | 34,600   | 33,000   | M               | 41,000         |
| Non-S&E occupation                       | 30,300   | 31,000   | 30,000   | 31,000              | M        | M        | M               | M              |
| Physical sciences.....                   | 34,900   | 36,000   | 31,100   | 35,900              | M        | 32,100   | M               | M              |
| S&E occupation....                       | 35,000   | 36,400   | 31,000   | 36,000              | M        | 32,100   | M               | M              |
| Non-S&E occupation                       | 31,000   | 28,000   | M        | 28,000              | M        | M        | M               | M              |
| Chemistry.....                           | 34,000   | 34,900   | 33,300   | 35,000              | M        | M        | M               | M              |
| S&E occupation....                       | 33,500   | 34,900   | 32,100   | 34,900              | M        | M        | M               | M              |
| Non-S&E occupation                       | M        | M        | M        | M                   | M        | M        | M               | M              |
| Physics/astronomy....                    | 38,000   | 38,400   | M        | 38,400              | M        | M        | M               | M              |
| S&E occupation....                       | 38,400   | 38,500   | M        | 38,500              | M        | M        | M               | M              |
| Non-S&E occupation                       | M        | M        | M        | M                   | M        | M        | M               | M              |
| Other phys sciences...                   | 32,000   | 35,900   | 28,700   | 32,400              | M        | M        | M               | M              |
| S&E occupation....                       | 33,800   | 36,400   | 28,700   | 35,000              | M        | M        | M               | M              |
| Non-S&E occupation                       | 27,000   | M        | M        | 26,900              | M        | M        | M               | M              |
| Math/statistics.....                     | 32,800   | 35,000   | 30,000   | 32,800              | M        | M        | M               | M              |
| S&E occupation....                       | 33,900   | 34,800   | 32,100   | 33,900              | M        | M        | M               | M              |
| Non-S&E occupation                       | 24,600   | M        | M        | 24,600              | M        | M        | M               | M              |
| Computer science.....                    | 42,100   | 42,900   | 40,100   | 43,900              | M        | 36,000   | M               | M              |
| S&E occupation....                       | 42,200   | 43,000   | 40,100   | 43,900              | M        | 36,000   | M               | M              |
| Non-S&E occupation                       | 39,100   | 41,000   | M        | 41,100              | M        | M        | M               | M              |
| Environ science.....                     | 33,800   | 35,000   | 31,800   | 34,300              | M        | M        | M               | M              |
| S&E occupation....                       | 33,900   | 35,300   | 30,200   | 34,400              | M        | M        | M               | M              |
| Non-S&E occupation                       | 25,100   | M        | M        | M                   | M        | M        | M               | M              |
| Life sciences.....                       | 26,900   | 26,900   | 26,600   | 26,900              | M        | M        | M               | M              |
| S&E occupation....                       | 25,300   | 26,000   | 25,000   | 25,700              | M        | M        | M               | M              |
| Non-S&E occupation                       | 27,000   | 27,000   | 28,000   | 27,000              | M        | M        | M               | M              |
| Biology.....                             | 26,600   | 26,000   | 27,400   | 26,900              | M        | M        | M               | M              |
| S&E occupation....                       | 25,000   | 25,000   | 25,700   | 25,000              | M        | M        | M               | M              |
| Non-S&E occupation                       | 27,100   | M        | M        | 27,000              | M        | M        | M               | M              |
| Agr science.....                         | 27,000   | 30,000   | 24,600   | 27,900              | M        | M        | M               | M              |
| S&E occupation....                       | 26,900   | 29,000   | 23,800   | 27,900              | M        | M        | M               | M              |
| Non-S&E occupation                       | 27,000   | M        | M        | M                   | M        | M        | M               | M              |
| Psychology.....                          | 32,000   | 36,900   | 32,000   | 32,100              | M        | M        | M               | M              |
| S&E occupation....                       | 32,100   | M        | 28,000   | 32,100              | M        | M        | M               | M              |
| Non-S&E occupation                       | 31,000   | M        | 32,400   | 30,100              | M        | M        | M               | M              |
| Social sciences.....                     | 31,000   | 30,000   | 31,200   | 31,100              | M        | M        | M               | M              |
| S&E occupation....                       | 30,100   | 26,000   | 31,200   | 31,200              | M        | M        | M               | M              |
| Non-S&E occupation                       | 31,000   | 31,000   | 30,200   | 31,000              | M        | M        | M               | M              |
| Economics.....                           | 35,700   | 35,000   | M        | 42,300              | M        | M        | M               | M              |
| S&E occupation....                       | 36,000   | M        | M        | M                   | M        | M        | M               | M              |
| Non-S&E occupation                       | M        | M        | M        | M                   | M        | M        | M               | M              |
| Socio/anthro.....                        | 24,000   | M        | M        | 25,000              | M        | M        | M               | M              |
| S&E occupation....                       | 21,100   | M        | M        | M                   | M        | M        | M               | M              |
| Non-S&E occupation                       | M        | M        | M        | M                   | M        | M        | M               | M              |
| Other soc sciences....                   | 30,000   | 26,000   | 31,200   | 31,000              | M        | M        | M               | M              |
| S&E occupation....                       | 28,900   | 25,300   | 32,000   | 31,100              | M        | M        | M               | M              |
| Non-S&E occupation                       | 30,100   | 31,000   | 30,000   | 30,200              | M        | M        | M               | M              |

See explanatory information and SOURCE at end of table.

Table B-44. Median annual salaries of 1988 and 1989 science and engineering (S&E) master's-degree recipients, by field of degree, S&E employment status, sex, and racial/ethnic group: 1990

| Field of degree and S&E employment status | Total    | Sex      |          | Racial/ethnic group |          |          |                 |                |
|---|----------|----------|----------|---------------------|----------|----------|-----------------|----------------|
|   |          | Men      | Women    | White               | Black    | Asian    | Native American | Hispanic<br>1/ |
| Total engineering.....                    | \$41,400 | \$42,000 | \$40,100 | \$42,100            | \$41,900 | \$39,100 | M               | \$40,100       |
| S&E occupation....                        | 41,100   | 41,700   | 40,000   | 41,500              | 41,800   | 39,500   | M               | 39,100         |
| Non-S&E occupation                        | 43,900   | 46,900   | M        | 48,800              | M        | M        | M               | M              |
| Aero/astro.....                           | 46,500   | 46,500   | M        | 46,500              | M        | M        | M               | M              |
| S&E occupation....                        | 46,400   | 46,400   | M        | 46,400              | M        | M        | M               | M              |
| Non-S&E occupation                        | M        | M        | M        | M                   | M        | M        | M               | M              |
| Chemical.....                             | 40,200   | 40,600   | 38,100   | 41,000              | M        | 39,100   | M               | M              |
| S&E occupation....                        | 40,200   | 40,500   | 37,800   | 41,000              | M        | 39,200   | M               | M              |
| Non-S&E occupation                        | M        | M        | M        | M                   | M        | M        | M               | M              |
| Civil.....                                | 35,200   | 35,200   | 35,600   | 35,900              | M        | 30,800   | M               | M              |
| S&E occupation....                        | 35,300   | 35,300   | 35,600   | 35,900              | M        | 31,000   | M               | M              |
| Non-S&E occupation                        | M        | M        | M        | M                   | M        | M        | M               | M              |
| Elect/electron.....                       | 46,500   | 46,700   | M        | 47,900              | M        | 41,000   | M               | M              |
| S&E occupation....                        | 45,800   | 46,000   | M        | 46,800              | M        | 41,000   | M               | M              |
| Non-S&E occupation                        | M        | M        | M        | M                   | M        | M        | M               | M              |
| Industrial.....                           | 40,300   | 40,200   | 40,400   | 42,000              | M        | M        | M               | M              |
| S&E occupation....                        | 40,100   | 40,100   | 40,000   | 40,000              | M        | M        | M               | M              |
| Non-S&E occupation                        | 43,000   | M        | M        | M                   | M        | M        | M               | M              |
| Materials.....                            | 41,300   | 40,400   | 42,200   | 41,400              | M        | 40,100   | M               | M              |
| S&E occupation....                        | 41,500   | 41,000   | 42,200   | 42,000              | M        | 40,100   | M               | M              |
| Non-S&E occupation                        | M        | M        | M        | M                   | M        | M        | M               | M              |
| Mechanical.....                           | 42,100   | 42,100   | M        | 42,100              | M        | M        | M               | M              |
| S&E occupation....                        | 42,100   | 42,100   | M        | 42,000              | M        | M        | M               | M              |
| Non-S&E occupation                        | M        | M        | M        | M                   | M        | M        | M               | M              |
| Mining.....                               | 37,300   | 37,500   | M        | 37,300              | M        | M        | M               | M              |
| S&E occupation....                        | 37,500   | 37,900   | M        | 37,500              | M        | M        | M               | M              |
| Non-S&E occupation                        | M        | M        | M        | M                   | M        | M        | M               | M              |
| Nuclear.....                              | 40,200   | 40,100   | M        | 40,400              | M        | M        | M               | M              |
| S&E occupation....                        | 40,100   | 40,000   | M        | 40,200              | M        | M        | M               | M              |
| Non-S&E occupation                        | M        | M        | M        | M                   | M        | M        | M               | M              |
| Petroleum.....                            | 40,800   | 41,100   | M        | 40,900              | M        | M        | M               | M              |
| S&E occupation....                        | 40,600   | 40,900   | M        | 40,900              | M        | M        | M               | M              |
| Non-S&E occupation                        | M        | M        | M        | M                   | M        | M        | M               | M              |
| Other engineering....                     | 39,000   | 39,900   | 37,000   | 39,000              | M        | 40,000   | M               | M              |
| S&E occupation....                        | 38,800   | 39,600   | 37,000   | 39,000              | M        | 40,000   | M               | M              |
| Non-S&E occupation                        | 40,000   | 40,000   | M        | 39,900              | M        | M        | M               | M              |

KEY: M = No median computed for groups with fewer than 20 individuals reporting salary

NOTES: Median salaries computed only for full-time employed civilians.  
Data exclude those on full-time graduate students.

SOURCE: National Science Foundation/SRS, 1990 New Entrants Survey

Table B-45. Median annual salaries of 1988 and 1989 science and engineering master's-degree recipients, by field of degree and type of employer: 1990

| Field of degree        | Total    | Business and industry |          |               | Educational institutions |                   |          | Non-profit orgs | Federal Government | State/local governments | Other    | No report |
|------------------------|----------|-----------------------|----------|---------------|--------------------------|-------------------|----------|-----------------|--------------------|-------------------------|----------|-----------|
|                        |          | Total                 | Industry | Self-employed | Total                    | 4-yr college univ | Other    |                 |                    |                         |          |           |
| Total, all fields..... | \$37,000 | \$40,100              | \$40,100 | \$48,000      | \$26,100                 | \$26,300          | \$26,100 | \$28,000        | \$36,000           | \$28,900                | \$30,200 | M         |
| Total sciences.....    | 33,800   | 39,000                | 38,400   | 48,000        | 26,000                   | 25,100            | 26,000   | 27,000          | 32,100             | 26,000                  | 25,000   | M         |
| Physical sciences..... | 34,900   | 36,900                | 36,900   | M             | 27,900                   | 23,500            | 28,600   | M               | 36,600             | M                       | 35,900   | M         |
| Chemistry.....         | 34,000   | 35,900                | 35,900   | M             | 26,100                   | M                 | M        | M               | M                  | M                       | M        | M         |
| Physics/astronomy..... | 38,000   | 42,400                | 42,400   | M             | 29,000                   | 29,700            | M        | M               | M                  | M                       | M        | M         |
| Other phys sciences... | 32,000   | 38,000                | 37,900   | M             | 28,000                   | M                 | 28,500   | M               | M                  | M                       | M        | M         |
| Math/statistics.....   | 32,800   | 42,000                | 42,000   | M             | 24,500                   | 25,000            | 24,500   | M               | M                  | M                       | M        | M         |
| Computer science.....  | 42,100   | 42,200                | 42,200   | M             | 35,000                   | 37,700            | 34,900   | M               | M                  | M                       | M        | M         |
| Environ science.....   | 33,800   | 36,100                | 36,800   | M             | 22,000                   | 21,100            | M        | M               | 30,000             | 29,900                  | M        | M         |
| Life sciences.....     | 26,900   | 28,400                | 28,000   | M             | 24,000                   | 24,000            | 23,600   | M               | 30,000             | 24,000                  | 25,700   | M         |
| Biology.....           | 26,600   | 27,000                | 27,000   | M             | 25,100                   | 25,100            | 25,000   | M               | M                  | M                       | M        | M         |
| Agr science.....       | 27,000   | 33,900                | 33,900   | M             | 22,000                   | 22,400            | M        | M               | 29,300             | M                       | M        | M         |
| Psychology.....        | 32,000   | 37,000                | 37,000   | M             | M                        | M                 | M        | M               | M                  | M                       | M        | M         |
| Social sciences.....   | 31,000   | 35,000                | 32,400   | M             | 26,000                   | 28,000            | 24,000   | M               | 25,300             | 29,000                  | M        | M         |
| Economics.....         | 35,700   | 35,000                | 35,100   | M             | M                        | M                 | M        | M               | M                  | M                       | M        | M         |
| Socio/anthro.....      | 24,000   | M                     | M        | M             | M                        | M                 | M        | M               | M                  | M                       | M        | M         |
| Other soc sciences.... | 30,000   | 32,100                | 31,000   | M             | 24,200                   | M                 | 24,000   | M               | M                  | M                       | M        | M         |
| Total engineering..... | 41,400   | 41,400                | 41,400   | M             | 36,200                   | 36,100            | 40,000   | 45,000          | 44,100             | 34,800                  | 40,900   | M         |
| Aero/astro.....        | 46,500   | 46,500                | 46,500   | M             | M                        | M                 | M        | M               | M                  | M                       | M        | M         |
| Chemical.....          | 40,200   | 40,200                | 40,200   | M             | M                        | M                 | M        | M               | M                  | M                       | M        | M         |
| Civil.....             | 35,200   | 35,000                | 35,000   | M             | M                        | M                 | M        | M               | M                  | 34,900                  | M        | M         |
| Elect/electron.....    | 46,500   | 45,800                | 46,400   | M             | M                        | M                 | M        | M               | M                  | M                       | M        | M         |
| Industrial.....        | 40,300   | 40,100                | 40,100   | M             | M                        | M                 | M        | M               | M                  | M                       | M        | M         |
| Materials.....         | 41,300   | 42,000                | 42,000   | M             | M                        | M                 | M        | M               | M                  | M                       | M        | M         |
| Mechanical.....        | 42,100   | 42,100                | 42,000   | M             | M                        | M                 | M        | M               | M                  | M                       | M        | M         |
| Mining.....            | 37,300   | 37,400                | 37,400   | M             | M                        | M                 | M        | M               | M                  | M                       | M        | M         |
| Nuclear.....           | 40,200   | 40,700                | 40,700   | M             | M                        | M                 | M        | M               | M                  | M                       | M        | M         |
| Petroleum.....         | 40,800   | 40,900                | 40,900   | M             | M                        | M                 | M        | M               | M                  | M                       | M        | M         |
| Other engineering..... | 39,000   | 39,600                | 39,800   | M             | M                        | M                 | M        | M               | 43,000             | 34,000                  | M        | M         |

KEY: M = No median computed for groups with fewer than 20 individuals reporting salary

NOTES: Median salaries computed only for full-time employed civilians.  
Data exclude those on full-time graduate students.

SOURCE: National Science Foundation/SRS, 1990 New Entrants Survey



Table B-46. Median annual salaries of 1988 and 1989 science and engineering master's-degree recipients, by field of degree and primary work activity: 1990

| Field of degree        | Total    | Research and development |          |          |             | Management/administration |          |            |
|------------------------|----------|--------------------------|----------|----------|-------------|---------------------------|----------|------------|
|                        |          | Total                    | Basic    | Applied  | Development | Total                     | Of R&D   | Of non-R&D |
| Total, all fields..... | \$37,000 | \$40,200                 | \$31,000 | \$36,600 | \$42,100    | \$40,000                  | \$46,000 | \$35,400   |
| Total sciences.....    | 33,800   | 36,400                   | 25,000   | 32,100   | 41,000      | 35,000                    | 44,800   | 32,400     |
| Physical sciences..... | 34,900   | 36,000                   | 32,500   | 35,900   | 38,000      | 38,000                    | H        | 40,100     |
| Chemistry.....         | 34,000   | 34,900                   | H        | 35,900   | 32,500      | H                         | H        | H          |
| Physics/astronomy..... | 38,000   | 39,900                   | H        | H        | 42,100      | H                         | H        | H          |
| Other phys sciences... | 32,000   | 39,600                   | H        | 42,500   | H           | 40,100                    | H        | H          |
| Math/statistics.....   | 32,800   | 42,800                   | H        | H        | 42,700      | 53,900                    | H        | H          |
| Computer science.....  | 42,100   | 43,000                   | H        | H        | 42,500      | 48,000                    | 47,600   | 48,100     |
| Environ science.....   | 33,800   | 30,000                   | 22,000   | 32,100   | 30,100      | 35,900                    | H        | 35,900     |
| Life sciences.....     | 26,900   | 27,900                   | 24,900   | 26,100   | 35,900      | 25,100                    | H        | 25,000     |
| Biology.....           | 26,600   | 27,000                   | 24,900   | 27,000   | H           | H                         | H        | H          |
| Agr science.....       | 27,000   | 29,700                   | H        | 23,000   | 35,000      | 26,900                    | H        | 25,800     |
| Psychology.....        | 32,000   | H                        | H        | H        | H           | 32,800                    | H        | H          |
| Social sciences.....   | 31,000   | 32,000                   | H        | 32,000   | H           | 31,000                    | H        | 31,100     |
| Economics.....         | 35,700   | H                        | H        | H        | H           | H                         | H        | H          |
| Socio/anthro.....      | 24,000   | H                        | H        | H        | H           | H                         | H        | H          |
| Other soc sciences.... | 30,000   | H                        | H        | H        | H           | 30,000                    | H        | 30,000     |
| Total engineering..... | 41,400   | 42,200                   | 42,200   | 40,900   | 42,300      | 48,900                    | 51,200   | 47,700     |
| Aero/astro.....        | 46,500   | 46,400                   | H        | H        | H           | H                         | H        | H          |
| Chemical.....          | 40,200   | 40,100                   | H        | 39,000   | 40,200      | 47,100                    | H        | H          |
| Civil.....             | 35,200   | 34,200                   | H        | H        | 33,500      | 40,000                    | H        | 40,100     |
| Elect/electron.....    | 46,500   | 47,900                   | H        | H        | 48,000      | 53,600                    | H        | H          |
| Industrial.....        | 40,300   | 40,400                   | H        | H        | 40,400      | 43,900                    | H        | 42,200     |
| Materials.....         | 41,300   | 42,100                   | H        | 42,700   | 42,100      | 47,900                    | H        | H          |
| Mechanical.....        | 42,100   | 42,100                   | H        | H        | 41,500      | H                         | H        | H          |
| Mining.....            | 37,300   | H                        | H        | H        | H           | H                         | H        | H          |
| Nuclear.....           | 40,200   | 40,200                   | H        | H        | 42,200      | H                         | H        | H          |
| Petroleum.....         | 40,800   | 41,000                   | H        | H        | 40,400      | H                         | H        | H          |
| Other engineering..... | 39,000   | 40,000                   | H        | 35,000   | 40,100      | 49,100                    | H        | 44,900     |

See explanatory information and SOURCE at end of table.

Table B-46. Median annual salaries of 1988 and 1989 science and engineering master's-degree recipients, by field of degree and primary work activity: 1990

| Field of degree        | Teaching | Production/inspection | Reporting/stat work/computing | Sales    | Professional services | Other    | No report |
|------------------------|----------|-----------------------|-------------------------------|----------|-----------------------|----------|-----------|
| Total, all fields..... | \$26,100 | \$38,500              | \$37,000                      | \$33,000 | M                     | \$34,900 | M         |
| Total sciences.....    | 26,000   | 36,000                | 36,100                        | 32,000   | M                     | 32,100   | M         |
| Physical sciences..... | 28,700   | 37,900                | 28,000                        | M        | M                     | 32,600   | M         |
| Chemistry.....         | M        | 36,100                | M                             | M        | M                     | M        | M         |
| Physics/astronomy..... | M        | M                     | M                             | M        | M                     | M        | M         |
| Other phys sciences... | 28,200   | M                     | M                             | M        | M                     | 36,100   | M         |
| Math/statistics.....   | 24,500   | M                     | 35,500                        | M        | M                     | M        | M         |
| Computer science.....  | 34,900   | M                     | 40,000                        | M        | M                     | 41,200   | M         |
| Environ science.....   | M        | 39,100                | 32,100                        | M        | M                     | 33,900   | M         |
| Life sciences.....     | 26,000   | 23,800                | 24,700                        | M        | M                     | 27,000   | M         |
| Biology.....           | 26,000   | M                     | M                             | M        | M                     | M        | M         |
| Agr science.....       | M        | M                     | M                             | M        | M                     | M        | M         |
| Psychology.....        | M        | M                     | M                             | M        | M                     | M        | M         |
| Social sciences.....   | 24,000   | M                     | 31,200                        | M        | M                     | 25,300   | M         |
| Economics.....         | M        | M                     | M                             | M        | M                     | M        | M         |
| Socio/anthro.....      | M        | M                     | M                             | M        | M                     | M        | M         |
| Other soc sciences.... | 26,000   | M                     | M                             | M        | M                     | M        | M         |
| Total engineering..... | 40,500   | 40,100                | 40,000                        | 36,100   | M                     | 36,400   | M         |
| Aero/astro.....        | M        | M                     | M                             | M        | M                     | M        | M         |
| Chemical.....          | M        | 40,100                | M                             | M        | M                     | M        | M         |
| Civil.....             | M        | M                     | 35,300                        | M        | M                     | 35,700   | M         |
| Elect/electron.....    | M        | M                     | M                             | M        | M                     | M        | M         |
| Industrial.....        | M        | 36,800                | M                             | M        | M                     | M        | M         |
| Materials.....         | M        | 40,000                | M                             | M        | M                     | M        | M         |
| Mechanical.....        | M        | 42,100                | M                             | M        | M                     | M        | M         |
| Mining.....            | M        | 37,500                | M                             | M        | M                     | 32,900   | M         |
| Nuclear.....           | M        | 40,300                | M                             | M        | M                     | M        | M         |
| Petroleum.....         | M        | 40,700                | M                             | M        | M                     | M        | M         |
| Other engineering..... | M        | 40,200                | 38,200                        | M        | M                     | 35,100   | M         |

KEY: M = No median computed for groups with fewer than 20 individuals reporting salary

NOTES: Median salaries computed only for full-time employed civilians.  
Data exclude those on full-time graduate students.

SOURCE: National Science Foundation/SRS, 1990 New Entrants Survey

BEST COPY AVAILABLE

Table 8-47. Selected employment characteristics of 1988 and 1989 science and engineering bachelor's- and master's-degree recipients, by field of degree and sex: 1990

| Field of degree and sex | Labor force participation rate |          | Unemployment rate |          | In-field employment rate |          |
|-------------------------|--------------------------------|----------|-------------------|----------|--------------------------|----------|
|                         | Bachelor's                     | Master's | Bachelor's        | Master's | Bachelor's               | Master's |
| Total, all fields.....  | 97.4                           | 97.1     | 3.4               | 1.8      | 37.8                     | 59.0     |
| Men.....                | 98.2                           | 98.5     | 3.5               | 1.5      | 42.7                     | 57.6     |
| Women.....              | 96.1                           | 93.9     | 3.3               | 2.7      | 29.9                     | 62.4     |
| Total sciences.....     | 96.9                           | 96.9     | 3.7               | 1.9      | 33.2                     | 59.6     |
| Men.....                | 97.7                           | 98.8     | 4.0               | 1.5      | 38.0                     | 57.1     |
| Women.....              | 95.9                           | 94.0     | 3.4               | 2.6      | 27.7                     | 63.7     |
| Physical sciences.....  | 97.0                           | 97.9     | 5.0               | 2.1      | 35.6                     | 43.4     |
| Men.....                | 97.3                           | 98.5     | 6.0               | 2.1      | 33.9                     | 41.7     |
| Women.....              | 96.5                           | R        | 2.8               | R        | 39.1                     | R        |
| Chemistry.....          | 97.1                           | 96.8     | 4.9               | 1.9      | 51.9                     | 57.3     |
| Men.....                | 97.0                           | R        | 7.5               | R        | 51.9                     | R        |
| Women.....              | 97.1                           | R        | 1.2               | R        | 51.8                     | R        |
| Physics/astronomy.....  | 96.3                           | 97.9     | 5.7               | 2.2      | 8.8                      | 27.7     |
| Men.....                | 96.7                           | 98.3     | 6.7               | 2.2      | 9.3                      | 28.4     |
| Women.....              | R                              | R        | R                 | R        | R                        | R        |
| Other phys sciences...  | 98.3                           | R        | 4.0               | R        | 27.0                     | R        |
| Men.....                | 99.3                           | R        | R                 | R        | 36.4                     | R        |
| Women.....              | R                              | R        | R                 | R        | R                        | R        |
| Math/statistics.....    | 96.7                           | 98.1     | 4.1               | 1.1      | 39.6                     | 57.4     |
| Men.....                | 98.7                           | 99.6     | 3.1               | 1.5      | 31.7                     | 53.3     |
| Women.....              | 94.8                           | 95.9     | 5.2               | 0.5      | 47.9                     | 63.1     |
| Computer science.....   | 98.3                           | 98.2     | 2.5               | 1.5      | 81.5                     | 77.2     |
| Men.....                | 98.9                           | 99.3     | 2.4               | 0.8      | 79.7                     | 73.0     |
| Women.....              | 96.7                           | 95.3     | 2.6               | 3.2      | 86.5                     | 88.8     |
| Environ science.....    | 97.2                           | 99.8     | 4.8               | 2.7      | 56.1                     | 69.4     |
| Men.....                | 97.2                           | 99.7     | 4.5               | 2.7      | 57.3                     | 71.5     |
| Women.....              | R                              | R        | R                 | R        | R                        | R        |
| Life sciences.....      | 96.0                           | 96.5     | 4.6               | 2.1      | 38.4                     | 59.0     |
| Men.....                | 97.8                           | 98.0     | 4.3               | 2.1      | 40.4                     | 52.5     |
| Women.....              | 94.3                           | 95.0     | 4.8               | 2.1      | 36.5                     | 65.9     |
| Biology.....            | 95.1                           | 98.5     | 6.1               | 1.9      | 40.2                     | 60.2     |
| Men.....                | 96.9                           | 99.9     | 6.4               | 0.4      | 39.4                     | 50.8     |
| Women.....              | 93.8                           | 97.5     | 5.9               | 2.9      | 40.9                     | 67.0     |
| Agr science.....        | 97.7                           | 93.6     | 1.6               | 2.5      | 35.1                     | 57.1     |
| Men.....                | 99.0                           | 96.2     | 1.4               | 3.7      | 41.8                     | 54.1     |
| Women.....              | 95.8                           | 88.6     | 1.8               | R        | 24.7                     | 63.2     |
| Psychology.....         | 96.1                           | 97.6     | 2.9               | 3.6      | 9.9                      | 48.1     |
| Men.....                | 97.4                           | 100.0    | 6.9               | 2.5      | 9.4                      | 41.0     |
| Women.....              | 95.5                           | 96.3     | 1.0               | 4.2      | 10.1                     | 52.3     |
| Social sciences.....    | 97.1                           | 93.4     | 4.0               | 2.1      | 14.1                     | 43.5     |
| Men.....                | 96.9                           | 97.5     | 3.8               | 1.2      | 16.6                     | 38.9     |
| Women.....              | 97.4                           | 88.5     | 4.2               | 3.3      | 11.2                     | 49.5     |
| Economics.....          | 98.3                           | 97.0     | 2.8               | R        | 13.8                     | 26.6     |
| Men.....                | 98.2                           | 98.5     | 2.9               | R        | 16.6                     | 28.7     |
| Women.....              | 98.6                           | R        | 2.4               | R        | 7.2                      | R        |
| Socio/anthro.....       | 97.1                           | 95.3     | 4.8               | 2.2      | 8.1                      | 38.8     |
| Men.....                | 95.8                           | R        | 4.4               | R        | 9.7                      | R        |
| Women.....              | 97.8                           | R        | 5.1               | R        | 7.3                      | R        |
| Other soc sciences....  | 96.2                           | 91.3     | 4.5               | 3.1      | 17.6                     | 52.7     |
| Men.....                | 96.0                           | 96.9     | 4.5               | 1.2      | 18.8                     | 44.4     |
| Women.....              | 96.5                           | 86.2     | 4.5               | 5.0      | 16.1                     | 61.6     |

See explanatory information and SOURCE at end of table.

Table B-47. Selected employment characteristics of 1988 and 1989 science and engineering bachelor's- and master's-degree recipients, by field of degree and sex: 1990

| Field of degree and sex | Labor force participation rate |          | Unemployment rate |          | In-field employment rate |          |
|-------------------------|--------------------------------|----------|-------------------|----------|--------------------------|----------|
|                         | Bachelor's                     | Master's | Bachelor's        | Master's | Bachelor's               | Master's |
| Total engineering.....  | 98.9                           | 97.5     | 2.7               | 1.7      | 50.7                     | 57.8     |
| Men.....                | 99.0                           | 98.1     | 2.8               | 1.5      | 50.9                     | 58.2     |
| Women.....              | 98.0                           | 93.1     | 2.1               | 3.2      | 49.8                     | 54.5     |
| Aero/astro.....         | 100.0                          | R        | 2.5               | R        | 48.9                     | R        |
| Men.....                | 100.0                          | R        | 2.7               | R        | 46.7                     | R        |
| Women.....              | R                              | R        | R                 | R        | R                        | R        |
| Chemical.....           | 95.1                           | R        | 2.8               | R        | 49.6                     | R        |
| Men.....                | 93.2                           | R        | 4.0               | R        | 51.8                     | R        |
| Women.....              | 99.2                           | R        | 0.2               | R        | 45.2                     | R        |
| Civil.....              | 98.6                           | 98.1     | 2.0               | 1.4      | 71.1                     | 69.1     |
| Men.....                | 99.3                           | 98.9     | 2.1               | 1.6      | 71.1                     | 70.8     |
| Women.....              | 94.8                           | R        | 0.9               | R        | 71.3                     | R        |
| Elect/electron.....     | 99.3                           | 95.8     | 2.6               | 1.5      | 53.3                     | 57.7     |
| Men.....                | 99.4                           | 96.9     | 2.6               | 0.8      | 53.8                     | 58.6     |
| Women.....              | 98.7                           | R        | 3.2               | R        | 49.5                     | R        |
| Industrial.....         | 98.9                           | 99.1     | 4.5               | 5.9      | 42.2                     | 26.5     |
| Men.....                | 99.4                           | 99.0     | 5.3               | 6.3      | 41.9                     | 27.1     |
| Women.....              | 96.9                           | R        | 1.5               | R        | 43.5                     | R        |
| Materials.....          | R                              | R        | R                 | R        | R                        | R        |
| Men.....                | R                              | R        | R                 | R        | R                        | R        |
| Women.....              | R                              | R        | R                 | R        | R                        | R        |
| Mechanical.....         | 98.7                           | 99.5     | 3.0               | 0.8      | 44.3                     | 60.4     |
| Men.....                | 98.9                           | 99.7     | 2.8               | 0.8      | 43.3                     | 61.1     |
| Women.....              | 97.1                           | R        | 4.4               | R        | 52.2                     | R        |
| Mining.....             | R                              | R        | R                 | R        | R                        | R        |
| Men.....                | R                              | R        | R                 | R        | R                        | R        |
| Women.....              | R                              | R        | R                 | R        | R                        | R        |
| Nuclear.....            | R                              | R        | R                 | R        | R                        | R        |
| Men.....                | R                              | R        | R                 | R        | R                        | R        |
| Women.....              | R                              | R        | R                 | R        | R                        | R        |
| Petroleum.....          | R                              | R        | R                 | R        | R                        | R        |
| Men.....                | R                              | R        | R                 | R        | R                        | R        |
| Women.....              | R                              | R        | R                 | R        | R                        | R        |
| Other engineering.....  | 99.0                           | 97.4     | 1.4               | 1.6      | 38.6                     | 53.5     |
| Men.....                | 98.9                           | 97.4     | 1.6               | 1.6      | 38.6                     | 48.7     |
| Women.....              | 99.4                           | R        | 0.6               | R        | 38.7                     | R        |

KEY: R = No rate computed for groups with fewer than 1,500 individuals in labor force

NOTES: Labor force participation rate = number in labor force as a percentage of total population  
 Unemployment rate = number of unemployed as a percentage of labor force  
 In-field employment rate = number employed in field as a percentage of those with degrees in that field  
 Data exclude those on full-time graduate students.

SOURCE: National Science Foundation/SRS, 1990 New Entrants Survey

## Section C. Survey Instrument

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STUDY #31-1591-121  
SPRING 1990

OMB No.: 3145-0077  
Expires: December 31, 1991

National Science Foundation  
and  
U.S. Department of Energy

## **1990 Survey of Natural and Social Science and Engineering Graduates**

This information is solicited under the authority of the National Science Foundation Act of 1950, as amended. All information you provide will be treated as confidential and will be used for statistical purposes only. Information will be released only in the form of statistical summaries from which it will be impossible to identify any particular person. Your response is entirely voluntary and failure to provide some or all of the requested information will not in any way adversely affect you.

Public reporting burden for this collection of information is estimated to average 15 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to Herman Fleming, National Science Foundation, 1800 G Street, N.W., Washington, D.C. 20550 and to the Office of Management and Budget, Paperwork Reduction Project (OMB No. 3145-0077), Washington, D.C. 20503.

Conducted by:  
Institute for Survey Research  
Temple University  
-Of the Commonwealth System of Higher Education-  
Philadelphia, Pennsylvania 19122

## INSTRUCTIONS FOR COMPLETING THIS QUESTIONNAIRE

In constructing this questionnaire, we have tried to provide response categories for most answers. If the response categories are not adequate for you to answer a question, please write in your answer.

For most questions, response categories have been provided and you are asked to mark a box. In addition, in some of the questions you are asked to fill in "code numbers" either from the list on the INSERT, or from a preceding question.

An example, with sample answers, is shown below.

. . . . .

1. Do you subscribe to any periodical journals or magazines?

1.  Yes (GO TO QUESTION 2)

2.  No (SKIP TO NEXT SECTION)

2. Which of the following journals or magazines do you receive? (MARK AS MANY AS APPLY)

01.  Newsweek

04.  Science

02.  Time

05.  Scientific American

03.  Life

06.  Other. SPECIFY: \_\_\_\_\_

3. Which of the journals marked in question 2 most relates to the kind of work you do? (ENTER THE APPROPRIATE CODE NUMBER FROM QUESTION 2)

. . . . .

Please answer all the questions that apply and follow directions which may ask you to skip certain questions. In the absence of instructions, always go to the next question. Even if you feel only part of the questionnaire applies to you, or there are some questions you cannot answer, please answer as many questions as possible and return the entire questionnaire.

We appreciate your participation and thank you for completing this questionnaire. Please go to the next page and answer all applicable questions.

## PART I. EDUCATION

1. Please list all undergraduate and graduate degrees, excluding honorary degrees, that have been awarded to you. Refer to the DEGREE AND EMPLOYMENT SPECIALTY LIST on the INSERT for the degree field and code number of the major field. Do NOT include correspondence courses, on-the-job training, apprenticeships, or training at an employer's training school.

If you need more space, attach a separate sheet of paper and give the same type of information for each additional school listed.

| 1a. TYPE OF DEGREE | 1b. UNIVERSITY/<br>CITY & STATE | 1c. MONTH/YEAR<br>GRANTED | 1d. MAJOR FIELD/CODE   |
|--------------------|---------------------------------|---------------------------|--|
| Bachelor's         | _____                           | _____                     | _____ <input type="text"/> <input type="text"/> <input type="text"/> |
| Master's           | _____                           | _____                     | _____ <input type="text"/> <input type="text"/> <input type="text"/> |
| Doctorate          | _____                           | _____                     | _____ <input type="text"/> <input type="text"/> <input type="text"/> |
| Other, (Specify):  | _____                           | _____                     | _____ <input type="text"/> <input type="text"/> <input type="text"/> |
| Other (Specify):   | _____                           | _____                     | _____ <input type="text"/> <input type="text"/> <input type="text"/> |

2. Between January and May 1990, did you attend a college or university?

1.  Yes → 2.  Undergraduate, full-time  
 3.  Undergraduate, part-time  
 4.  Graduate full-time  
 5.  Graduate, part-time
- (GO TO QUESTION 2a)
6.  No (SKIP TO QUESTION 3)

2a. What field of study did you pursue?  
 (ENTER DEGREE FIELD AND CODE FROM DEGREE AND EMPLOYMENT SPECIALTY LIST ON INSERT)

|                               |  |  |  |  |
|-------------------------------|--|--|--|--|
| (DESCRIPTION OF DEGREE FIELD) | <table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 33%; height: 20px;"></td> <td style="width: 33%; height: 20px;"></td> <td style="width: 33%; height: 20px;"></td> </tr> </table><br>(CODE) |  |  |  |
|                               |  |  |  |  |

Did not pursue any specific field of study



**PART II. EMPLOYMENT STATUS**

|  |  |
|--|--|
| <p>3. During the week of February 4, 1990, were you.</p> <ol style="list-style-type: none"> <li>1. <input type="checkbox"/> Working full-time (35 hours or more at least in one position)* (SKIP TO QUESTION 7)</li> <li>2. <input type="checkbox"/> Working part-time* (GO TO QUESTION 4)</li> <li>3. <input type="checkbox"/> Not working, but seeking work (SKIP TO QUESTION 6a)</li> <li>4. <input type="checkbox"/> Not working and not seeking work. (SKIP TO QUESTION 5)</li> </ol> <p>*Includes job held while attending school.</p>   | <p>6a. If you were unemployed and seeking employment during the week of February 4, 1990, was your job search restricted by (MARK ONLY ONE BOX)</p> <ol style="list-style-type: none"> <li>1. <input type="checkbox"/> Geographic location</li> <li>2. <input type="checkbox"/> Family responsibilities</li> <li>3. <input type="checkbox"/> Need for part-time employment</li> <li>4. <input type="checkbox"/> Other, PLEASE SPECIFY: _____</li> <li>5. <input type="checkbox"/> Not restricted</li> </ol> <p style="text-align: right;">(SKIP TO PART III ON PAGE 5)</p>   |
| <p>4. Were you seeking full-time work?</p> <ol style="list-style-type: none"> <li>1. <input type="checkbox"/> Yes</li> <li>2. <input type="checkbox"/> No</li> </ol> <p style="text-align: center;">→ (SKIP TO QUESTION 7)</p>   | <p>7. During the week of February 4, 1990, were you working at (or on layoff or temporarily absent from) a position related to the natural sciences, social sciences, or engineering?</p> <ol style="list-style-type: none"> <li>1. <input type="checkbox"/> Yes (SKIP TO PART III ON PAGE 5)</li> <li>2. <input type="checkbox"/> No (GO TO QUESTION 8)</li> </ol>  |
| <p>5. Did you look for work at any time during the three weeks prior to the week of February 4, 1990, that is, between January 14 and February 3, 1990?</p> <ol style="list-style-type: none"> <li>1. <input type="checkbox"/> Yes</li> <li>2. <input type="checkbox"/> No</li> </ol>  | <p>8. What was the most important reason that you were NOT working at a position related to science or engineering? (MARK ONLY ONE BOX)</p> <ol style="list-style-type: none"> <li>1. <input type="checkbox"/> Preferred non-science or non-engineering position</li> <li>2. <input type="checkbox"/> Promoted out of science or engineering position</li> <li>3. <input type="checkbox"/> Pay was better in non-science or non-engineering position</li> <li>4. <input type="checkbox"/> Locational preference</li> <li>5. <input type="checkbox"/> Science or engineering position not available</li> <li>6. <input type="checkbox"/> Not trained in a natural science, social science, or engineering field</li> <li>7. <input type="checkbox"/> Other reason, PLEASE SPECIFY: _____<br/>                 _____<br/>                 _____<br/>                 _____<br/>                 _____<br/>                 _____<br/>                 _____<br/>                 _____<br/>                 _____</li> </ol> |
| <p>6. What was the main reason you were not working or not seeking work during the week of February 4, 1990? (MARK ONLY ONE BOX)</p> <ol style="list-style-type: none"> <li>1. <input type="checkbox"/> On layoff from a job</li> <li>2. <input type="checkbox"/> On vacation or otherwise temporarily absent from a job for health or personal reasons</li> <li>3. <input type="checkbox"/> Retired</li> <li>4. <input type="checkbox"/> Student</li> <li>5. <input type="checkbox"/> Family responsibilities</li> <li>6. <input type="checkbox"/> Chronic illness or permanent disability</li> <li>7. <input type="checkbox"/> Could not find work or believed no jobs available in my particular field</li> <li>8. <input type="checkbox"/> Did not want to work</li> <li>9. <input type="checkbox"/> New job to begin within 30 days</li> <li>10. <input type="checkbox"/> Waiting for school to begin</li> <li>11. <input type="checkbox"/> Other, PLEASE SPECIFY: _____<br/>                 _____<br/>                 _____<br/>                 _____<br/>                 _____</li> </ol> <p style="text-align: center;">(SKIP TO PART III ON PAGE 5)</p> |  |

**PART III. EMPLOYMENT PROFILE**

If you have never been employed, nor self-employed, please mark this box and SKIP TO QUESTION 26 ON PAGE 9. Otherwise, CONTINUE with the instructions below.

In this part of the questionnaire, we are asking questions about the job you held during the week of February 4, 1990, or your most recent job before February 4th. Please include any employment, including a military service job, not only a scientific or technical job. If you had more than one regular job during the week of February 4th, please list the one which you consider your principal employment

9. For whom did you work? What is the name of the company, business, or the government agency you worked for?

CHECK HERE IF SELF-EMPLOYED

9a. Where were you employed, that is, in what city, county, and state?

\_\_\_\_\_  
(CITY OR TOWN)

\_\_\_\_\_  
(COUNTY)

\_\_\_\_\_  
(STATE OR FOREIGN COUNTRY)

10. Which of the categories below best describes the type of organization of your principal employment or post-doctoral appointment? (MARK ONLY ONE BOX)

- 01  Business or industry  → (GO TO QUESTION 11)
- 02  Self-employed
- 03  Junior college, 2-year college, technical institute
- 04  Medical school
- 05  4-year college or university, other than medical school
- 06  Elementary or secondary school system
- 07  Hospital or clinic
- 08  Nonprofit organization, other than hospital, clinic or educational institution
- 09  U.S. military service, active duty, or Commissioned Corps, such as USPHS, NOAA, etc
- 10  U.S. Government, civilian employee
- 11  State government
- 12  Local or other government (SPECIFY): \_\_\_\_\_
- 13  International agency
- 14  Other (SPECIFY): \_\_\_\_\_

(SKIP TO QUESTION 12)

11. If you were employed by business/industry or if you were self-employed, how would you classify the organization listed in question 9?

(PLEASE ENTER CODE FROM EMPLOYER CLASSIFICATION LIST ON THE INSERT IF THE ORGANIZATION CONDUCTS ITS ACTIVITIES AT DIFFERENT LOCATIONS. ENTER THE CODE FOR THE ACTIVITY AT THE LOCATION WHERE YOU ARE EMPLOYED. PLEASE WRITE IN THE TYPE OF ACTIVITY IF IT IS NOT FOUND ON THE LIST.)

|  |  |  |
|--|--|--|
|  |  |  |
|--|--|--|

(CODE)

TYPE OF ACTIVITY: \_\_\_\_\_

12 From the activities listed below, select your primary and secondary work activities for your principal job (as reported in question 9) in terms of time devoted for a typical week.

(ENTER THE APPROPRIATE CODE NUMBER 01-16 FOR EACH)

|  |  |
|--|--|
|  |  |
|--|--|

Primary activity

|  |  |
|--|--|
|  |  |
|--|--|

Secondary Activity

- 01 Management or administration of research or development
- 02 Management or administration of other than research and development
- 03 Teaching and training—preparing and teaching courses, guiding and counseling students or trainees
- 04 Basic research—that is, study directed toward gaining scientific knowledge primarily for its own sake
- 05 Applied research—that is, study directed toward gaining scientific knowledge in an effort to meet a recognized need
- 06 Development—product, process, and technical development. That is, direction of knowledge gained from research toward production of useful materials, devices, systems and methods
- 07 Report and technical writing, editing, information retrieval
- 08 Clinical diagnosis, psychotherapy
- 09 Design of equipment, processes, models
- 10 Quality control, testing, evaluation, or inspection
- 11 Operations—production, maintenance, construction, installation, exploration
- 12 Distribution—sales, traffic, purchasing, customer and public relations
- 13 Statistical work—survey work, forecasting, statistical analysis
- 14 Consulting
- 15 Computer applications
- 16 Other activities (SPECIFY): \_\_\_\_\_

13 During a typical week in your principal job (as reported in question 9), what percent of working time do you devote to the following activities?

(ENTRIES SHOULD TOTAL 100.0%)

- \_\_\_\_\_ % Primary work activity
- \_\_\_\_\_ % Secondary work activity
- \_\_\_\_\_ % Other activities

100.0% TOTAL

14. From the DEGREE AND EMPLOYMENT LIST on the INSERT, select and enter the number and title of the specialty most closely related to your principal employment (as reported in question 9) during the week of February 4, 1990.

(PLEASE WRITE IN YOUR SPECIALTY IF IT IS NOT ON THE LIST)

Number: 

|  |  |  |
|--|--|--|
|  |  |  |
|--|--|--|

Title: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

15 For your principal job (as reported in question 9), what is the basic annual salary you **currently** earn?

(Do not include bonuses, overtime, summer teaching or other payments for secondary jobs )

\$ \_\_\_\_\_ .00 per year

Not currently employed at that job.

16 If academically employed in your principal job, is your salary for:

9-10 months. OR  11-12 months?

Not Academically employed.

17 How many years of professional work experience, including teaching, do you have?

\_\_\_\_\_ Year(s) OR  None

18 Using the DEGREE AND EMPLOYMENT SPECIALTY LIST on the INSERT, complete the following statement:

"Based on my total education and experience, I regard myself professionally as a(an)..."

\_\_\_\_\_ "

CODE

|  |  |  |
|--|--|--|
|  |  |  |
|--|--|--|

19. During the week of February 4, 1990, was any of your work at your principal job supported by U.S. Government funds?

1.  Yes → (GO TO QUESTION 20)

2.  No

3.  Don't know

→ (SKIP TO QUESTION 21)

20. Which of the following agencies or departments were supporting your work?

(MARK AS MANY AS APPLY)

1.  AID--Agency for International Development

2.  Department of Agriculture

3.  Department of Commerce

4.  Department of Defense

5.  Department of Energy

6.  Department of Education (NIE, OE, NCES)

7.  Department of Health and Human Services (DHHS)

8.  Department of Housing and Urban Development

9.  Department of the Interior

10.  Department of Justice

11.  Department of Labor

12.  Department of Transportation

13.  EPA--Environmental Protection Agency

14.  NASA--National Aeronautics and Space Administration

15.  NSF--National Science Foundation

16.  Nuclear Regulatory Commission

17.  Other, SPECIFY:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

18.  Don't know source agency

21 The following list contains selected areas of national interest. Indicate the **one** area to which you devote(d) the **most** professional time during a typical week at the job reported in question 9

- 1  Energy and fuel (GO TO QUESTION 22)
- 2  Health
- 3  Environment
- 4  Education
- 5  National defense
- 6  Agriculture
- 7  Mineral resources
- 8  Community development and service
- 9  Housing (planning, design, construction)
- 10  Transportation
- 11  Communications
- 12  Technological development
- 13  Space
- 14  Business/Commerce
- 15  Other, PLEASE SPECIFY: \_\_\_\_\_

(SKIP TO QUESTION 26)

24 From the list of energy-related activities below, indicate the items that best describe the activities in which you were engaged during a typical week.

(MARK AS MANY AS APPLY)

- 1  Exploration
- 2  Extraction (gas, oil, mining)
- 3  Manufacture of energy-related components or products
- 4  Fuel processing (including refining and enriching)
- 5  Electric power generation
- 6  Transportation, transmission, distribution of fuel or energy
- 7  Energy storage
- 8  Energy utilization, management
- 9  Fuel reprocessing or disposal
- 10  Energy conservation
- 11  Environmental impact (health, economic, etc.)
- 12  Education, training
- 13  Other, SPECIFY: \_\_\_\_\_

22. What is your best estimate of the percent of your professional time that you devote(d) to **energy and fuel** during a typical week?

- 1  100 percent
- 2  75 to 99 percent
- 3  50 to 74 percent
- 4  25 to 49 percent
- 5  24 percent or less

25. From the list in question 24, enter the number of the activity that best describes the one in which you spend(t) most of your energy-related time.

(ENTER THE APPROPRIATE CODE NUMBER, 01-13, FROM QUESTION 24)

|  |  |
|--|--|
|  |  |
|--|--|

(CODE)

23 From the list below, indicate the **one** energy source that involves(d) the **largest** proportion of your energy-related work during a typical week.

- 1.  Coal and coal products
- 2.  Petroleum (including oil shale and tar sands) or natural gas
- 3.  Fission
- 4.  Fusion
- 5.  Hydroenergy
- 6.  Direct solar (including space and water heating, thermal, electric)
- 7.  Indirect solar (winds, tides, biomass, etc.)
- 8.  Geothermal
- 9.  Other, SPECIFY: \_\_\_\_\_

**PART IV. DEMOGRAPHIC CHARACTERISTICS**

|  |   |
|--|---|
| <p>26 In what month and year were you born?</p> <p align="center">_____</p> <p align="center">(MONTH)                      (YEAR)</p>  | <p>29a. Are you of Spanish/Hispanic origin or descent?</p> <p>1 <input type="checkbox"/> Yes → 2 <input type="checkbox"/> Mexican-American</p> <p>3 <input type="checkbox"/> Puerto Rican</p> <p>4 <input type="checkbox"/> Other Hispanic</p> <p>5 <input type="checkbox"/> No</p>   |
| <p>26a Where was your place of birth?</p> <p align="center">_____</p> <p align="center">(STATE, OR FOREIGN COUNTRY, IF NOT USA)</p>  | <p>30 As of February 4, 1990, were you:</p> <p>1 <input type="checkbox"/> Married      2 <input type="checkbox"/> Widowed</p> <p>3 <input type="checkbox"/> Separated    4 <input type="checkbox"/> Divorced</p> <p>5 <input type="checkbox"/> Never married</p>  |
| <p>27 Are you:</p> <p>1 <input type="checkbox"/> Male      2 <input type="checkbox"/> Female</p>   | <p>31 As of February 4, 1990, did you have any children living with you?</p> <p>1 <input type="checkbox"/> Yes → 2 <input type="checkbox"/> Under 6 years of age</p> <p>3 <input type="checkbox"/> 6-17 years of age</p> <p>4 <input type="checkbox"/> No</p>   |
| <p>28 Are you.</p> <p>1 <input type="checkbox"/> U.S. citizen      ] → (SKIP TO QUESTION 29)</p> <p>2 <input type="checkbox"/> U.S. naturalized      ]</p> <p>3 <input type="checkbox"/> Non-U.S. immigrant (Permanent Resident)</p> <p>4 <input type="checkbox"/> Non-U.S. citizen, nonimmigrant (Temporary Resident)</p> <p>28a If non-U.S. citizen, of which country are you a citizen?</p> <p align="center">_____</p> <p align="center">(COUNTRY)</p> | <p>32. Are you physically disabled?</p> <p>1 <input type="checkbox"/> Yes (GO TO QUESTION 33)</p> <p>2 <input type="checkbox"/> No (SKIP TO QUESTION 34)</p> <p>33 If yes, what is the nature of your disability(ies)? (MARK AS MANY AS APPLY)</p> <p>1 <input type="checkbox"/> No useful sight</p> <p>2 <input type="checkbox"/> No useful hearing</p> <p>3 <input type="checkbox"/> No use of arms or legs</p> <p>4 <input type="checkbox"/> Other. SPECIFY: _____</p> |
| <p>29. Are you.</p> <p>1 <input type="checkbox"/> American Indian or Alaskan Native</p> <p>2 <input type="checkbox"/> Asian or Pacific Islander</p> <p>3 <input type="checkbox"/> Black</p> <p>4 <input type="checkbox"/> White</p> <p>5 <input type="checkbox"/> Other. PLEASE SPECIFY: _____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>  |   |

**PART V. OTHER INFORMATION**

34 So that we can contact you in the event it is necessary to clarify some of the information you provide, please give us your first name and the telephone number at which you can be reached.

\_\_\_\_\_  
(FIRST NAME)

\_\_\_\_\_  
(AREA CODE)                      (NUMBER)

If there is an alternate number at which you can be reached, enter it also.

\_\_\_\_\_  
(AREA CODE)                      (NUMBER)

35 Date completed:

\_\_\_\_\_  
(MONTH)                      (DAY)                      (YEAR)

THANK YOU FOR COMPLETING THIS QUESTIONNAIRE. PLEASE RETURN THE COMPLETED FORM IN THE ENCLOSED POSTAGE-PAID ENVELOPE TO:

*INSTITUTE FOR SURVEY RESEARCH  
TEMPLE UNIVERSITY--083-46  
1601 NORTH BROAD STREET  
PHILADELPHIA, PA 19122*

## DEGREE AND EMPLOYMENT SPECIALTY LIST

### Agriculture

- 804 Agriculture, business
- 013 Agronomy
- 014 Animal, dairy, poultry sciences
- 015 Farm and range management
- 016 Fish, game, and wildlife management
- 017 Food sciences
- 018 Forestry and related sciences
- 019 Horticulture
- 020 Natural resources management
- 021 Soil science
- 090 Agricultural sciences, other\*

### Biological Sciences

- 211 Anatomy, histology
- 213 Biochemistry
- 714 Biometrics and biostatistics
- 214 Biophysics
- 215 Botany
- 221 Cell and molecular biology
- 216 Entomology
- 226 Embryology
- 217 Genetics
- 218 Immunology
- 219 Marine biology
- 220 Microbiology, bacteriology
- 227 Neurosciences
- 222 Nutrition
- 228 Parasitology
- 223 Pathology, human, animal, plant
- 224 Physiology, human, animal, plant
- 229 Radiology
- 230 Toxicology
- 225 Zoology
- 290 Biological sciences, other\*

### Education

- 413 Biological sciences education
- 414 Engineering education
- 417 Mathematics education
- 421 Physical sciences education
- 425 Social science education
- 490 Education, other\*

### Engineering

- 511 Aerospace, aeronautical, astronautical
- 512 Agricultural
- 513 Architectural
- 514 Bioengineering and biomedical engineering
- 515 Chemical, including petroleum refining
- 516 Civil, construction, and transportation
- 729 Computer
- 517 Electrical, electronic, and communication
- 529 Engineering science, mechanics, physics
- 519 Environmental and sanitary
- 520 Geological
- 521 Industrial
- 530 Materials
- 522 Mechanical
- 523 Metallurgical
- 524 Mining and mineral
- 525 Naval architecture and marine
- 526 Nuclear
- 531 Ocean
- 527 Petroleum
- 528 Textile
- 751 Operations research/management sciences
- 590 Engineering, other\*

### Mathematical Sciences

- 711 Actuarial science
- 712 Applied mathematics
- 750 Mathematics
- 751 Operations research/management sciences
- 713 Statistics
- 714 Biometrics and biostatistics
- 780 Mathematics, other\*

### Computer and Information Sciences

- 723 Software systems
- 724 Hardware systems
- 725 Intelligent systems
- 726 Information sciences
- 727 Systems analysis
- 728 Computer sciences, other\*

### Physical Sciences

- 720 Astronomy
- 721 Atmospheric sciences and meteorology
- 213 Biochemistry
- 722 Chemistry
- 741 Earth sciences and geology
- 733 Metallurgy
- 742 Oceanography
- 731 Physics
- 790 Physical sciences, other\*

### Social Sciences

- 811 Anthropology
- 812 Criminology
- 813 Economics (except agricultural)
- 814 Geography
- 823 Economics, agricultural
- 118 Linguistics
- 817 Political science and government
- 818 Psychology (except clinical)
- 821 Sociology
- 822 Urban studies
- 890 Social sciences, other\*

### Health Sciences

- 611 Clinical psychology
- 612 Dentistry
- 614 Hospital and health care administration
- 615 Medicine or premedicine
- 616 Nursing
- 617 Pharmacology
- 618 Pharmacy
- 690 Health area, other\*

### Arts, Humanities and Other Specialties

- 910 Area and ethnic studies
- 911 Architecture and environmental design
- 110 Arts and letters, general
- 310 Business and commerce
- 115 English and journalism
- 114 Fine and applied arts
- 116 Foreign language and literature, all fields
- 815 History
- 912 Home economics, all fields
- 913 Law and prelaw
- 914 Library science
- 915 Military science, including merchant marine deck officer
- 816 Philosophy
- 819 Religion and theology
- 820 Social work
- 999 Other specialties\*



**EMPLOYER CLASSIFICATION LIST**

CODE

**MANUFACTURING**

- 401 Primary metals products
- 402 Fabricated metals products
- 403 Computers and computing equipment
- 404 Nonelectrical machinery (including engines and turbines, construction machinery, metal working and industrial machinery; and excluding computing and computing equipment)
- Electrical Equipment**
- 405 Household appliances (excluding radios and televisions)
- 406 Radios and televisions
- 407 Other electrical equipment (including electric motors, transmission equipment, and generators)\*
- Transportation Equipment**
- 408 Aircraft, aircraft engine and parts
- 409 Motor vehicles and equipment
- 410 Guided missiles and space vehicles and parts
- 411 Other transportation equipment (including railroad and parts)\*
- 412 Ordnance (including arms manufacture and ammunition)
- 413 Professional and scientific instruments
- 414 Chemicals and allied products
- 415 Petroleum and coal products, including petroleum refining
- 416 Other manufacturing\*

\* Identify specific industry in space provided in the questionnaire.

CODE

**NON-MANUFACTURING**

- 417 Construction
- Mining and Petroleum Extraction**
- 418 Coal mining
- 419 Petroleum and gas extraction
- 420 Other mining\*
- Transportation, Communications, and Utilities**
- 421 Transportation
- 422 Communications
- 423 Utilities and sanitary services
- Wholesale and Retail Trade**
- 424 Wholesale trade
- 425 Retail trade
- 426 Finance, Insurance, and Real Estate
- Services**
- 427 Computer and data processing services
- 428 Engineering, architectural, and surveying services
- 429 Other services\*
- 430 Other\*



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Topic: stisdirm

You will receive instructions for this service.

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